

# Metropolitan Detroit's Bird Agenda

Metro Detroit Nature Network

March 2017

# **Report Credits:**

Coordinating Team:

, Detroit River International Wildlife Refuge , Detroit Zoological Society , Detroit Audubon Society , Detroit Audubon Society

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## **EXECUTIVE SUMMARY**

There are over 350 species of birds that are regularly observed and recorded in Metropolitan Detroit area. Some are permanent residents that both breed and spend the majority of the year in the Detroit area. Others spend winters in Central and South America, but breed here. Others pass through on their migratory routes and use local habitats for feeding and resting during their journeys.

Key avian attributes of our metropolitan region include:

- It is situated at the intersection of the Atlantic and Mississippi Flyways;
- Over 350 species of birds have been identified in the corridor;
- 30 species of waterfowl have been documented using the corridor;
- More than 300,000 diving ducks use the lower Detroit River as stopover habitat during migration;
- The lower Detroit River is one of the three best places to watch raptor migrations in the U.S., with 23 species of raptors migrating across the river;
- Pointe Mouillee, Erie Marsh, and St. Clair Flats, one of the largest freshwater deltas in the world, are important stopover points for feeding for migratory shore birds during fall migration;
- The corridor has four "Important Bird Areas" designated by National Audubon Society;
- In 2011, Ducks Unlimited identified Metropolitan Detroit as one of the top ten metropolitan areas for waterfowl hunting in the U.S.;
- Detroit River and western Lake Erie offer exceptional birding opportunities a ByWays to FlyWays Bird Driving Tour features 27 unique birding sites in southwest Ontario and southeast Michigan;
- This corridor has been recognized for its biodiversity in the North American Waterfowl Management Plan, the United Nations Convention on Biological Diversity, the Western Hemispheric Shorebird Reserve Network, and the Biodiversity Investment Area Program of Environment Canada and U.S. Environmental Protection Agency;
- Humbug Marsh in Trenton and Gibraltar, Michigan has been identified as a "Wetlands of International Importance" under the International Ramsar Convention;
- The Detroit River and western Lake Erie are part of the Detroit River International Wildlife Refuge, the only international wildlife refuge in North America;
- The Detroit River is the first river in North America to receive both American Heritage River and Canadian Heritage River designations; and
- There are many important upland sites for neo-tropical migratory songbirds during spring and fall migration.

This Metropolitan Detroit Bird Agenda has:

- Summarized the Urban Conservation Treaty for Migratory Birds Program and Metro Detroit's accomplishments to date;
- Identified key issues currently facing migratory and resident birds in Metropolitan Detroit; and
- Outlined high priority actions and "next steps" that Metropolitan Detroit partners will take over the next five years.

It is not feasible to move forward on all next steps due to resource limitations and time constraints. Therefore, the following actions are identified as high priorities over the next five years:

## Habitat loss and fragmentation:

- Recruiting new partners to the Metro Detroit Nature Network that will participate in the Urban Bird Treaty as described in this document
- Expanding cooperative programs for bird habitat conservation (e.g., creating more stop over habitat and wildlife corridors, expanding corporate wildlife habitat programs lie Wildlife Habitat Council)
- Supporting and expanding green infrastructure programs

Expanding school yard and backyard habitat projects

#### Hazard Reduction:

- Expanding Safe Passage
- Promoting Bird Friendly Bird Design including offering training for architects on bird friendly design
- Coordinating the timing of construction and re-vegetation projects (e.g., mowing schedules, etc.)

#### Citizen Science Programs:

- Compiling long-term, citizen science, trend data on peregrine falcon and osprey in southeast Michigan and broadly disseminate this information to show the value and benefit of such programs
- Expanding peregrine falcon and osprey monitoring through citizen science to ensure long-term sustainability of these programs
- Expanding black tern and grassland bird monitoring programs under the leadership of Detroit Audubon
- Expanding participation in Christmas Bird Counts
- Expanding backyard feeder watch program
- Expanding monitoring under the Safe Passage Program

To help recruit new partners and volunteers for this important bird conservation work the Metro Detroit Nature Network will convene an Urban Bird Summit within one year. This Urban Bird Summit will review progress on key issues, recruit new partners, and to help identify and seek small grant funding to support the above projects. This important Bird Agenda work will also be helpful in addressing the Metro Detroit Nature Network and the U.S. Fish and Wildlife Service's Urban Wildlife Conservation Program goals of developing develop the next generation of conservationists in urban areas because that is now where 80% of all U.S. citizens live.

## INTRODUCTION

In 2016, the Metro Detroit Nature Network (MDNN) was established to work cooperatively among conservation and outdoor recreational partners to bring conservation to cities and make nature part of everyday urban life. The vision of the Network is that all people in the metropolitan Detroit region have access to and actively steward nature and promote ecosystem sustainability. Over 20 partners signed a partnership agreement in the first four months and it is projected that over 100 partners will eventually join the Network. Currently the following MDNN organizations will be participating members of this Urban Bird Treaty: Detroit River International Wildlife Refuge, Detroit Zoological Society, Detroit Audubon Society, City of Detroit, Michigan Department of Natural Resources, Oakland County Parks, University of Michigan Dearborn, The Nature Conservancy, Friends of the Detroit River, International Wildlife Alliance, Six Rivers Land Conservancy, Michigan Recreation and Park Association, Greening of Detroit, Detroiters Working for Environmental Justice, Southeast Michigan Council of Governments (SEMCOG), and Macomb County Parks. One of the next steps is to have more organizations, especially those managing land, to sign on this partnership agreement.

The MDNN is represented by the entire Southeast Michigan Council of Governments (SEMCOG) seven county area that includes the counties of Wayne, Macomb, Oakland, Livingston, Washtenaw, Monroe, and St. Clair (Figure 1). For the purpose of this treaty, this area will be referred to as Metro Detroit. It is a diverse geographical area that has dense urban areas, sprawling suburbs, sparsely populated agricultural land, and is bordered on the east by the Great Lakes ecosystem from the St. Clair River to western Lake Erie. According to SEMCOG, there are 4.3 million that live in Metro Detroit and there are almost 200,000 acres of public parkland and conservation land.



Figure 1. Metro Detroit Nature Network geographical area.

The MDNN partners support pursuing an Urban Conservation Treaty for Migratory Birds designation with the U.S. Fish and Wildlife Service and developing urban bird conservation plan. Through the MDNN partnership agreement the partners have made long-term commitments to help protect and conserve Detroit area birds through the following actions:

- Habitat conservation and management
- Reduce avian hazards
- Citizen education and engagement
- Species specific management actions

This Metropolitan Detroit Bird Conservation Plan will:

- Summarize the Urban Conservation Treaty for Migratory Birds Program and Metro Detroit's accomplishments to date;
- Identify key issues currently facing migratory and resident birds in Metropolitan Detroit; and
- Outline high priority actions and "next steps" that Metropolitan Detroit partners will take over the next five years.

A nomination letter is presented in Appendix A and a letter of support from the City of Detroit is presented in Appendix B.

## METRO DETROIT BIRD COMPOSITION

#### Introduction

Over 350 species of birds have been observed in the Detroit Metro Area. Some northern breeding species winter in southeast Michigan, while millions of others utilize the area during spring and fall migrations. Birds that breed in the Detroit Metro area can be categorized as permanent residents, migratory species that are here from spring to fall, and nuisance species.

# **Migratory Species**

Situated at the intersection of the Atlantic and Mississippi Flyways, the Metropolitan Detroit area is an important migration corridor for thousands of raptor, shorebirds, colonial waterbirds, waterfowl, and neotropical species (Figure 2). An estimated three million ducks, geese, swans, and coots migrate annually through this region. The region contains extensive feeding and resting habitats for waterfowl. For

example, over 300,000 diving ducks stop each year to rest and feed on beds of wild celery in the lower Detroit River during their fall migration from western Canada to the east and south. This corridor has been recognized for its biodiversity in the North American Waterfowl Management Plan, the United Nations Convention on Biological Diversity, the Western Hemispheric Shorebird Reserve Network, and the Biodiversity Investment Area Program of Environment Canada and U.S. Environmental Protection Agency.

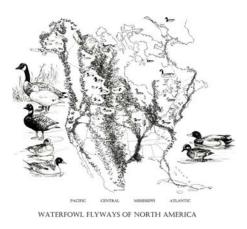


Figure 2. Waterfowl flyways of North America.

The corridor has four "Important Bird Areas" designated by National Audubon Society – St. Clair Flats (the world's largest freshwater delta) and Harsen's Island, Lake St. Clair, Detroit River, and the western Lake Erie basin. The Detroit River supports outstanding migrant and wintering waterfowl and waterbird concentrations; early winter surveys have recorded high counts of 79,300 Canvasbacks or over 10% of the estimated global population, over 1,900 Tundra Swans, 1,000 American Black Ducks, 10,000 Mallards, and 3,500 Common Mergansers., Ducks Unlimited has identified Metropolitan Detroit as one of the top ten metropolitan areas for waterfowl hunting in the U.S.

The lower Detroit River is one of the three best places to monitor fall raptor migrations in the U.S., with 23 species of raptors migrating across the river. To give you a feel of the magnitude of hawk migrations through the lower Detroit River, dedicated volunteers recorded an astounding 190,121 broad-winged hawks on September 17, 2011 at Lake Erie Metropark, representing the third highest single-day total recorded at this site (Stein, 2011).

Many migratory colonial waterbirds nest in throughout the corridor including Black Terns, Forster's Terns, and Common Terns, Great Blue Herons and Black-crowned Night-Herons, and Herring and Ring-billed Gulls, but are only censused every ten years in conjunction with the Great Lakes Decadal Survey. Pointe Mouillee State Game Area is not only utilized by migratory waterfall, but is an important stop for many migratory species including a stop-over site for shorebirds as they migrate from their northern breeding sites to the winter range. It even occasionally supports white pelicans before they start fall migration.

The corridor is also an important site for songbird migration in spring and fall. Belle Isle State Park and Lake St. Clair Metro Park are filled with warblers, thrushes, and sparrows during migration. Allen Chartier, a long-term birding expert from Detroit, has recorded over 20 species of warbler in the spring, including Golden-winged, Hooded, and Prothonotary Warblers. He recently observed on Belle Isle the first Pileated Woodpecker in Wayne County in more than 100 years. The birding experience is also excellent in other seasons as evidenced by the following quote from Allen Chartier "One fall day in 2005 I experienced hundreds each of White-throated Sparrow, Yellow-rumped Warbler, both Kinglets, and Hermit and Swainson's Thrushes, many feeding on the abundant food crop in the swamp woods. Northern Saw-whet Owls also migrate through Belle Isle, and sometimes over-winter in the tangles in the

woods." Many of the other managed lands in the Metro area are utilized by migratory birds in both the spring and fall. One of the goals of the UBT will be to utilize existing data, such as e-bird, to identify important lands that can be cooperatively managed for migratory birds.

## **Metro Detroit Nesting Species**

There are many species that utilize urban, suburban, and rural areas during nesting season. Species such as Robins, Grackles, Cardinals, Downy Woodpeckers, Black-capped Chickadees, and Goldfinches utilize even the most urbanized habitats. Sharp-shinned and Cooper's Hawks commonly prey on these species. The larger suburban and urban areas provide nesting opportunities for many migratory species. The Great Lakes corridor and the many inland lakes have nesting waterbirds including Black-crowned Night-Herons, Great Blue Herons, three Tern species, and nesting Bald Eagles.

Additional species have become dependent on human made structures for nesting sites. Purple Martins almost exclusively depend on martin houses while Barn Swallows utilize manmade structures throughout the metro area. Eastern Bluebirds, Tree Swallows, and House Wrens use specific nesting boxes. Chimney Swifts have adapted to nest in masonry chimneys, but as these have disappeared "artificial chimneys" are being utilized. Both Osprey and Peregrine Falcons have been reintroduced to metro Detroit by utilizing specific nesting boxers or man-made structures such as cell towers.

## **Nuisance Species**

Native and non-native bird species generally are considered a nuisance species when their populations increase to the point that it creates human/wildlife conflicts. Native species such as Canada Geese are found throughout Metro Detroit and create conflict on local lakes, golf courses, sport fields, and public parks. The non-native Mute Swan population has grown and destroys wetland habitat, endangers native waterfowl, and can threaten the public on watercraft and near shore. Both of these species are managed by the Michigan DNR. Other non-native species such as European Starlings and House Sparrows outcompete with native cavity nesting species. Rock Pigeons nest and forage in large flocks leaving droppings that can create a human health hazard and damage buildings. All of these species have the potential to create a negative bird opinion to the public.

## DEMOGRAPHICS OF SOUTHEAST MICHIGAN AND DETROIT

As of the U.S. 2010 Census, southeast Michigan has a population of 4,704,809 and is projected to remain steady with a population of 4,646,938 in 2020.

Within southeast Michigan, 68.5% of the population identifies as White, 21.6% identifies as Black, 3.9% as Hispanic, 3.6% as Asian, 2% Multi-Racial, and 0.4% as Other.

The highest levels of education within southeast Michigan are as follows: 28.5% High School Graduate, 23.2% Some College, 17% Bachelor's Degree, 12.2% Did not Graduate from High School, 11.5% Graduate/Professional Degree, and 7.7% Associate Degree.

As of the U.S. 2010 Census, the city of Detroit has a population of 713,862, following the trend of decreasing population since the city's population peak in 1950 of 1,849,568. The population is projected to continue to steadily decrease to 628,000 by 2020.

Historically, the suburbanization after World War II stripped the city of Detroit of much of its population. Housing discrimination blocked access out of the city for African Americans, which left the city extremely segregated. Detroit is composed of various ethnic groups with the majority of residents identifying as Black. The 2010 US census reported the population of Detroit as: 82.2% Black, 7.8% White, 6.8% Hispanic, 1.7% Multi-Racial, 1% Asian, and 0.5% other.

The highest level of education within Detroit are as follows: High School Graduate 34%, 24.7% Some College/No Degree, Did not graduate high school 23.2%, Bachelor's Degree 7.2%, Associate Degree 6.3%, and Graduate/Professional Degree 4.6%.

A number of the education and outreach programs included in this agenda aim to reach disadvantaged youth in the Metro Detroit Area. The Title 1 program provides financial assistance through state educational agencies to local educational agencies and public schools with high numbers or percentages of poor children to help ensure that all children meet challenging state academic content and student academic achievement standards. Title 1, formerly known as Chapter 1, is part of the Elementary and Secondary Education Act of 1965, and is committed to closing the achievement gap between low-income and other students. Federal funding is provided to states and school districts for instructional activities and program improvement. The number of Title 1 students reached by each program within this agenda is listed below with each relevant education program description.

## **HABITAT CONSERVATION**

## **Managed Lands**

#### Introduction

The Lake Huron to Lake Erie Corridor lies within the northern limits of the Eastern Deciduous Forest Region. The Corridor is regarded as part of the "Carolinian Life Zone" because of its link with forest communities located farther south. Many of the species found here are at the northern boundaries of their range. The Corridor also is a transition area between the hardwood forests of the east and the prairies of the west.

The Corridor is made up of the St. Clair River, Lake St. Clair and Detroit River, as well as the watersheds of southwestern Ontario and southeastern Michigan that drain into these large waterways. Water in this corridor flows from the mouth of Lake Huron through the St. Clair River, Lake St. Clair, the Detroit River, into Lake Erie. The tributary rivers, creeks, streams and drains in the watersheds connect the surrounding lands to the Corridor.

SEMCOG 2008 Land Use study identified 212,086 acres of parks, recreation and open space (Figure 3). These areas have different managers including federal and state agencies, metro park system, county and local governments, corporations, and universities. These lands are managed for a variety of purposes, but provide the foundation for habitat restoration, invasive species control, and species management. An effective management approach requires cooperative projects with shared management objectives.

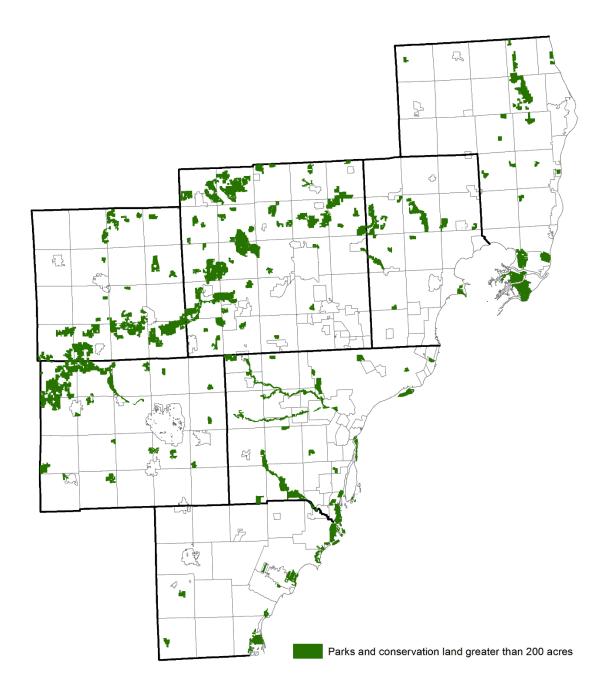


Figure 3. Parks and conservation lands greater than 200 acres in southeast Michigan (credit: Southeast Michigan Council of Governments).

## State Managed Lands

The Michigan Department of Natural Resources manages nearly 12,000 acres of land, including State Parks (SP), State Recreations Areas (SRA), State Game Areas (SGA), or Wildlife Management Areas (Table 1). Each of these lands has different missions that include recreation, hunting and fishing, bird watching, and wildlife conservation. This includes five state parks, six state recreating areas, six state game areas, and three wildlife areas.

- Belle Isle SP, Lake Erie SP, Seven Lakes SP, Algonac SP, Wetzel SP
- Petersburg SGA, Pointe Mouillee SGA, Holly SGA, Bald Mountain SGA, Horseshoe Lake SGA, Port Huron SGA, Gregory SGA,
- St Clair Flats Wildlife Area, Dickinson Island, St Johns Marsh Wildlife Area
- Pinckney SRA, Island Lake SRA, Brighton SRA, Pround Lake SRA, Highland SRA, Pontiac Lake SRA.

Table 1. Selected examples of conservation and outdoor recreational lands in southeast Michigan.

Organization	Units/Locations	Amount of Land
Huron Clinton Metropolitan Authority	13 Metroparks	Over 25,000 acres
Michigan Department of Natural Resources	Erie State Game Area, Sterling State Park, Pointe Mouillee State Game Area, Milliken State Park, Belle Isle State Park, and St. Johns Marsh and Wet Prairie	11,997 acres
Southeast Michigan Land Conservancy	19 nature preserves and 18 conservation easements	3,410 acres
Washtenaw County Parks	12 parks and 23 nature preserves	Over 5,000 acres
Wayne County Parks	Parks and nature areas	Over 5,600 acres
U.S. Fish and Wildlife Service	Detroit River International Wildlife Refuge	6,107 acres
Detroit Riverfront Conservancy	5.5 miles of waterfront greenway trails and parks	Over 100 acres
University of Michigan- Dearborn	Rouge River Bird Observatory	290 acres
Community Foundation for Southeast Michigan	Greenways Initiative	Over 150 miles of greenway trails
Detroit Zoological Society	Detroit Zoo	125 acres
The Nature Conservancy	Erie Marsh Preserve	2,217 acres

Monroe County	Parks	221 acres
Macomb County	Parks, nature areas, and greenspace	9,566 acres
Oakland County	Parks and nature areas	6,800 acres
City of Detroit	Parks	4,900 acres

# Federal Managed Lands

Detroit River International Wildlife Refuge

Today, the cleanup and recovery of the Detroit River represent one of the single most remarkable ecological recovery stories in North America. Out of the recovery has come the Detroit River International Wildlife Refuge that is one of 14 priority urban wildlife refuges in the county charged with bringing conservation to cities and making nature part of everyday urban life. It represents a new model for conservation - one that both restores habitats for fish and wildlife in an urban area through innovative public-private partnerships and that provides a blueprint for bringing conservation to cities across the nation. It extends along 48 miles of lower Detroit River and western Lake Erie, and focuses on conserving, protecting, and restoring habitats for 30 species of waterfowl, 113 kinds of fish, and over 300 species of birds. The U.S. Fish and Wildlife Service currently owns or cooperatively manages 6,107 acres of unique habitats (Table 1) and partners with Michigan Department of Natural Resource on conservation of 7,897 acres of state-owned land. A Canadian registry of lands now includes 3,797 acres of Essex Region Conservation Authority lands and 981 acres of City of Windsor lands. In total, 18,782 acres of land in southeast Michigan and southwest Ontario are now being cooperatively managed for conservation and outdoor recreation for nearly seven million people living within a 45-minute drive. This critical work is being done to help develop the next generation of conservationists in urban areas because that is now where 80% of U.S. and Canadian citizens live.

#### Next Steps:

- Continue to grow the refuge through public-private partnerships to 25,000 acres in both the U.S. and Canada in the next ten years.
- Expand efforts to bring conservation to cities and help develop the next generation of conservationists.
- Continue to be a leader on habitat restoration and enhancement through the Cooperative Weed Management Area.

Contact Person:	, Refuge Manager,	@fws.gov
Contact i Cison.	, rectage manager,	e iws.gov

#### Humbug Marsh

Michigan's Only Wetland of International Importance: Following the preservation of Humbug Marsh in 2004, the Michigan Department of Natural Resources and the U.S. Fish and Wildlife Service spent nearly three years compiling scientific data on Humbug Marsh that were used as the rationale for obtaining a Humbug Marsh "Wetland of International Importance" designation under the international Ramsar Convention. In 2010, Humbug Marsh received this designation from the International Ramsar Convention. There are over 2,200 such Ramsar designations worldwide, 38 in the United States, and only one in Michigan – Humbug Marsh. The Ramsar Convention is an international treaty that was signed in Ramsar, Iran in 1971 that provides a framework for voluntary international protection of wetlands. Humbug Marsh is considered an internationally important wetland because of its ecological importance in the Detroit River corridor and the Great Lakes Basin Ecosystem. Indeed, the Michigan Natural Features Inventory has ranked this community as globally imperiled. It serves as vital habitat for 154 species of birds, along with seven species of reptiles and amphibians, and 37 species of dragonflies and damselflies. Examples of unique species include: Canada Goose, Wood Duck, Double-crested Cormorant, Osprey, Bald Eagle, Killdeer, Ring-billed Gull, Red-bellied Woodpecker, Northern Flicker,

Warbling Vireo, Tree Swallow, Blue-grey Gnatcatcher, Cedar Waxwing, Yellow Warbler, and Song Sparrow.

## Next Steps:

- Expand citizen science bird surveys.
- Open Humbug Marsh and Refuge Gateway to public use in 2017.
- Co-locate Hawk Migration Association of North America in the Refuge's Visitor Center in 2017.

Contact person: , Assistant Refuge Manager, Detroit River International Wildlife Refuge, @fws.gov

# Local Government Managed Lands

Huron-Clinton Metroparks has 13 regional parks and each county in the Metro Detroit area maintains a park department. There are additional parks managed by city or township municipal governments. Only Oakland County Park system has signed the Urban Bird Treaty to date.

#### Regional Park System Lands

The Huron-Clinton Metroparks consist of 13 parks, covering over 25,000 acres throughout Southeast Michigan, encompassing Wayne, Oakland, Macomb, Washtenaw and Livingston counties. Next steps:

- Have HCMA become a partner of the UBT.
- Work with HCMA staff to describe the bird habitats at each park.
- Develop cooperative bird conservation management programs.

## County Park Systems

All of the counties in the Metro area have park systems with several counties including Wayne, Oakland, Washtenaw and Livingston managing a significant acreage of park lands.

## Oakland County Parks

The Oakland County Park System includes 13 parks that total 6,743 acres. The park system has worked with the Michigan Natural Features Inventory (MNFI) to identify potential natural areas, many that could be managed for bird conservation. A total of 3,213 acres are currently under natural resource management and the park system participates in a number of citizen science programs. See Table 1 for park description. See Appendix C for more information on Oakland County parks.

Next Steps: Contact HCMA, the remaining six counties and the municipalities with larger park systems and encourage them to sign the Partnership Agreement for the Metro Detroit Nature Network and to participate in the UBT and work cooperatively in bird conservation programs.

Non-Governmental Organizations Lands

## The Detroit Zoo

The Detroit Zoo is a 125-acre park in a suburban setting. The Zoo has two lakes, numerous water features, and large open spaces. Unique to the area is a nesting Black-crowned Night-Heron colony of over 50 pairs that is visible to the visitors and attracts a significant number of Turkey Vultures.

## Next Steps:

Complete nesting survey on Zoo grounds.

Contact person: , @dzs.org

## Other NGO Lands

There are other organizations that manage land in the Metro Detroit area including The Nature Conservancy, Southeast Michigan Land Conservancy, and Six Rivers Land Conservancy, among others.

The protected lands survey done by SEMCOG found 232 easements and 94 preserves, totaling 21,865 acres of protected lands within the region.

## Important Bird Areas

Important Bird Areas (IBAs) is a global initiative of BirdLife International that conserves areas important to bird conservation. Michigan IBAs are administered by Audubon Great Lakes and includes 103 IBA sites, seven of which are in Metro Detroit. IBAs provide critical habitat for one or more bird species and can include public or private land that may or may not be protected. The sites in the metro area include St. Clair Flats and Harsen's Island, Lake St. Clair, Detroit River, Western Lake Erie basin, Pinckney State Recreation Area, and Lake Erie Metropark Hawk. More information on Michigan's IBAs can be found at http://www.audubon.org/important-bird-areas/state/michigan.

Contact Person: ; @audubon.org

## **Corporation Lands**

There are a number of large corporate campuses that contain significant habitat in the metro Detroit area. Though some companies consider wildlife in their land management decisions, none have signed on as partner in the UBT.

Next Steps:

- Identify potential corporate partners and determine the importance of their campuses for bird conservation.
- Have at least three corporations become members of the UBT.

## **University Lands**

There are several universities that have significant tracts of land that have are not UBT partners. These include Oakland University, Wayne State University, Lawrence Tech, University of Detroit Mercy, and University of Michigan's Ann Arbor campus.

University of Michigan Dearborn's Rouge River Bird Observatory

Rouge River Bird Observatory was established in 1992 to explore an understudied yet increasingly critical area of research: the importance of urban natural areas to birds. In our rapidly urbanizing world, habitat fragments in metropolitan areas become more critical to birds. Understanding how birds use them is essential for conservation. We are the longest-running, full-time urban bird research station in North America. In 2016, 28 Title 1 students visited the Rouge River Bird Observatory.

# Next Steps:

- Secure sustained funding for the Observatory's ornithologist
- Expand educational programming

Contact Person: @umd.umich.edu

## **Invasive Species Control**

Invasive Vegetation in Urban Natural Areas

Invasive plant species are among the biggest challenges facing our urban natural areas, and hence, the habitat our native bird populations depend upon. Next to outright conversion of land, invasive species and

climate change are generally considered the most important threats to biodiversity. Invasive species play a significant role in altering the landscape and fundamental ecosystem processes, decreasing biodiversity, and damaging infrastructure. In an urbanized and fragmented area, invasive species pose a particularly acute threat to remaining natural habitats. Invasive species generally outcompete native plant species, and provide less food, cover and nesting value for native birds than native vegetation does. Species such as reed canarygrass and English and Irish ivies are capable of homogenizing the structure and biota of habitats, creating biological deserts, which provide few, if any, resources for native birds. The change in species composition in grasslands and forest understories is decreasing habitat for native birds as well. The spread of rhizomatous, perennial grasses and understory weeds such as garlic mustard eliminates bare ground which many native ground-nesting birds require. As mentioned under "Timing of Construction and Revegetation Projects" above, another issue related to managing invasive vegetation is how and when the management occurs. Removing invasive species during the nesting season can be disruptive or even cause nest failure. It is important to plan and implement invasive species removal to coincide with times best for eradication and to avoid disturbance to nesting birds. Introduced and invasive birds can out-compete native birds for essential resources such as food and nesting sites, with aggressive non-native birds such as house sparrows and European starlings often usurping and/or depredating native bird nests and even killing native competitors. These actions can have drastic negative effects on native bird populations already stressed by alteration of their historic habitat.

Detroit River-Western Lake Erie Cooperative Weed Management Area

This project is a partnership to more efficiently and effectively treat invasive species, restore coastal wetlands, and perform research and monitoring to support adaptive management. Partners include: BASF Corporation, DTE Energy, Ducks Unlimited, Eastern Michigan University, Huron-Clinton Metropolitan Authority, International Wildlife Refuge Alliance, Michigan Department of Natural Resources, Monroe Conservation District, Southeast Michigan Council of Governments, Stewardship Network, The Nature Conservancy in Michigan, the U.S. Fish and Wildlife Service, Wildlife Habitat Council, the City of Monroe, National Park Service, and others. In 2015, a \$211,000 grant was awarded from the Michigan Invasive Species Grant, resulting in surveys of priority invasive plants and treatment of 700 acres of *Phragmites*.

## Next Steps:

- Seek grant funding to support this effort
- Expand the number of partners
- Ensure strong science component to strengthen the science-policy linkage

Contact person:	, г	Detroit River	International	Wildlife	Refuge		@fws.gov
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## **Habitat Restoration Efforts**

#### Habitat Loss and Fragmentation

Numerous studies show that habitat loss and fragmentation are the leading cause of bird population declines. In urban areas, this is especially true as native habitat tends to get destroyed, degraded or increasingly fragmented with increasing development. These habitat fragments lose important ecological functional value.

In the SEMCOG region, the rate at which land conversion is occurring in the urban-rural interface is a huge threat and impact, resulting in the continued loss of quality habitat to development. Conservation and preservation areas and parks within Metropolitan Detroit and surrounding areas provide sanctuary to neotropical migratory landbirds for the breeding season, but also during migration as stopover habitat. It is within these areas that retention of snags and downed wood is most likely. These elements are essential to many bird species for cover, shelter, food, nesting, roosting, and perching. Yet, they are often removed by both public and private landowners because of perceived hazards or for aesthetics.

Protection and restoration of the Detroit River International Wildlife Refuge, Metroparks and city parks, creation of new habitats like for common terns and grassland birds, preservation of existing quality habitats, and increasing habitat connectivity for birds to move safely across the landscape are needed to ensure birds can successfully use and traverse the urban landscape throughout the year. Backyards of homes, urban agriculture, and vacant lots can provide some of these important habitats for birds, and should not be overlooked.

## Timing of Construction and Revegetation Projects

For years, the City of Detroit's Planning Department had only two City Planners on staff. In the last year and a half, the number of City Planners has grown to 30. As the Planning Department prepares to address the many infrastructure and parks and recreation needs of the city, it is vital that the areas in question are assessed prior to project implementation to determine if nesting birds will be impacted. Many urban activities and projects can potentially impact nesting birds: stream enhancement; re-vegetation; mowing; construction, removal and maintenance of structures; water-level management; and projects that include native or non-native invasive vegetation removal. Planning projects to avoid disturbances to birds by scheduling project activities outside of the nesting season is the most effective way to ensure birds will not be harmed. Detroit Audubon's Conservation Committee is working on a mowing schedule, with direct recommendations to the City for vacant lot maintenance, that will not disturb ground-nesting birds (i.e. mowing the perimeter or window pane of the vacant lot and doing so only in early Spring and Fall, to avoid the nesting season).

## Six Rivers Land Conservancy

Six Rivers has several citizen science efforts, ranging from participation in the annual butterfly count with the North American Butterfly Association to training volunteers to do field assessments of property. This latter effort is the most intensive and returns the most amount of detail. Six Rivers has developed parcel level land conservation priorities using GIS mapping with data layers that include natural feature, parcel size, proximity to other protected land and similar attributes. Other conservation professionals are consulted for insight and guidance, and citizens and communities are consulted to factor in their interests. Once the priorities have been created and mapped, Six Rivers then recruits and trains volunteers to field verify the accuracy of the information, ranging from "windshield" surveys to determine if a property remains undeveloped, to site assessment if the landowner is interested knowing more about the natural features on their property. This information informs Six Rivers' ongoing land protection efforts, eliminating properties that have been developed and providing detail for conservation easements, baseline documents and funding applications. Examples include providing the detail necessary to complete applications for Michigan DEQ 319 grant funds, and providing the descriptions of flora, fauna and features that are part of baseline documents for easements.

These efforts are based on the Huron River Watershed Council's "Bio Reserve" project. They have been adapted to the land conservation mission of Six Rivers and replicated in other watersheds we work in, including most recently serving as a critical component of grant projects in the Clinton and Belle watersheds that focused on identifying lands most important to protect in order to preserve water quality.

Six Rivers currently has 23 easements totaling 1,705 acres and six preserves totaling 120 acres.

## Next Steps:

- Working with Macomb County Planning, Economic Development Corporation, and Ducks Unlimited to acquire and preserve a 300 acre globally rare mesic flatwoods forested wetland complex to create Anchor Bay Woods Preserve. This is a critical habitat for both waterfowl and migratory songbirds.
- Secure the remaining funding needed to complete the project.
- Develop a program with MI Science Center which brings kids out to natural areas.

 Detroit Audubon's Conservation Committee partnered with Urban Neighborhood Initiatives (UNI) on a small grant to convert an empty lot in Southwest Detroit into native habitat. Trash was removed, and invasive species and weeds were pulled, by UNI volunteers. Native grasses and flowers were planted and an education group led by Detroit Audubon made bird houses that were installed in the lot. Detroit Audubon's Conservation Committee wrote a booklet on gardening for birds as part of this partnership with UNI, which is available on their website. Detroit Audubon has co-hosted bird walks with Urban Neighborhood Initiative students in the area that circle the restored lot.

The Conservation Committee is also working with the City of Detroit Planning Department and the Open Spaces Working Group to convert 5 unused city parks to intentional meadows per the City's 2016 Parks and Recreation Improvement Plan. Ultimately the goal is to replicate this conversion process for other unused city parks that have also been recommended to become meadows per the Improvement Plan.

#### Next Steps:

- Network with Greening of Detroit, UNI, Detroit Future City and City Planners on acquiring access to city-owned vacant lots and unused parks.
- Create mowing schedule that would reduce impact on breeding birds.
- Acquire new funding to restore these lots to native habitat, and get educational plaques in the lots to inform the community about the importance of the habitat.
- Add a public program component to inform communities of the importance of being stewards of these converted vacant lots and lead bird walks in these areas.
- Create a network of volunteers to assist with restoration, education and outreach and monitoring of the restored lots to ensure garbage dumping and vandalism do not occur.
- Disseminate the booklet on Gardening for Birds more widely.
- Interface with Detroit Future City's and National Audubon's national database and tool kits for restoring native grasslands.

Contact Person:	, Detroit Audubon Research Coordinator	,
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Detroit Audubon's Detroit Area Native Grasslands Initiative

In its early stages, this project was established by the Detroit Audubon board of directors in Fall 2015. Through this initiative, Detroit Audubon in collaboration with other environmental groups promotes the preservation of, maintenance and expansion of native grasslands habitats in the Detroit metro area. Detroit Audubon is also embarking on educational programs for schools and youth groups on the importance of native grasslands. Detroit Audubon held its annual conference at the Belle Isle Nature Zoo on Nov. 5, 2016 with a major emphasis on bringing together experts and concerned citizens to think and strategize about how to expand native grasslands in the Detroit area.

## Next Steps:

- Expand grassland education program and dissemination of materials to the general public, pubic officials, and agencies with authority over vacant land.
- Work with city officials and other environmental groups to identify one or more large tracts (500 cares or more) that could be restored to native prairie similar to what our neighbor across the river, Windsor, Ontario has done at Ojibway Prairie. An interpretive center might eventually be incorporated as well.
- Have staff and key leaders participate in developing a management plan for key parks like Belle Isle State Park that keeps key areas in native grasslands in perpetuity.
- Produce a film extolling the virtues of native grasslands using the ring-necked pheasant as an
  entry point and symbol—one of Detroit Audubon's board members is an independent filmmaker
  who is committed to making such a film when funding can be found.
- Creating public service announcements about the importance of native grasslands to air on local radio and television stations, and advertise about the importance of native grasslands on key billboards around the Detroit area similar to the Michigan Wildlife Council.

Produce a float extolling the virtues of native grasslands in the Michigan Thanksgiving Parade
which is telecast around the country and the world. Need major funding or a business to sponsor
such a float. Hold a contest for school children to actually submit designs for such a float.

Contact Person:	Detroit Audubon Research Coordinator,	
@detroitaudubon.org	·	

## Open Spaces Working Group

A unique feature of Detroit that is full of potential for habitat creation is its vacant lots. The City of Detroit has over 24 square miles of vacant open space within city limits. An Open Spaces Working Group, made up of partners such as Detroit Future City, Greening of Detroit, Detroit Audubon, Keep Growing Detroit, and others, is working with Detroit City Planners with the hope of seeing an Open Spaces Strategic Plan come into effect in 2017 and beyond. The Open Spaces Working Group will work together to advocate for, educate each other about, and advance the vision laid out in the Detroit Future City report Achieving an Integrated Open Space Network in Detroit. The collaborative effort between non-profits, community organizations and the City Planning Department, would aim to carefully select land parcels and convert them into intentional habitat including meadows, grasslands, woodlands or wetlands. Other land uses proposed within the working group include: stormwater infrastructure, buffers, parklands, greenways, and production of solar energy and urban agriculture. Still in its early stages, the Open Spaces Working Group is in the process of determining how best to engage the community and get input from the neighborhoods that will directly benefit from the conversion of vacant land parcels.

The habitat most likely to benefit from the Open Spaces Strategic Plan will be grasslands, as letting turf grass 'go wild' is the most affordable option for habitat creation, until more funding is obtained for removal of turf grass and plantings of native grasses and wildflowers. One key component to the success of this plan is public perception of grasslands as unkempt lots that should be mowed and well-groomed. Education and outreach will be a necessary aspect of restoration in order to promote stewardship and long-term success of restored or converted vacant lots. Grasslands may be the most endangered habitat in North America of which 42 bird species rely.

## Next Steps:

- Continue working with partners to create a Community Engagement Plan.
- Establish policy initiatives and positions focused on the creation of an open space network, addressing immediate and long-term issues.
- Develop and advocate for a decision-making tool to determine where and what type of open space is appropriated or desired. Educate and inform ourselves and others on open space, including opportunities and technical information.

## Other Habitat Restoration Projects

There have been a number of programs that received federal funding for habitat improvement projects including two projects coordinated by Friends of the Detroit River restoration of Blue Heron Lagoon on Belle Isle and Stony Island, a DNR owned island that has a large great blue heron colony. The Nature Conservancy has been involved in the restoration of oak savannah grasslands at Petersburg State Game Area.

#### Next Steps:

- Define scope of these projects and identify any other significant habitat restoration efforts that have occurred.
- Monitor sites for changes in how birds use the habitats.

Urban and suburban backyards can provide significant habitat for native bird and butterfly species, especially those adapted to an urban environment. Properly planting yards with native plants can also provide refueling stations for migratory birds.

#### Next Steps:

- Detroit Zoo will plant an example of Backyard Habitat on Zoo grounds and install informative signage for visitors
- Detroit Audubon's Conservation Committee has written a small booklet on Gardening for Birds, which will get distributed at Spring events and advertised on online.

## **HAZARD REDUCTION**

#### Cat Predation

A study published in 2013 by the Smithsonian Conservation Biology Institute and the U.S. Fish and Wildlife Service has found that outdoor cat predation results in the death of 1.3 to 4 billion birds annually in the U.S., a much larger number than previously estimated. The study showed that outdoor owned cats still hunted like their unowned counterparts, however, it was clear that unowned cats were responsible for a majority of the estimated bird deaths (~69%). The feral cat population in Metro Detroit has been estimated at 657,000 by Petsmart Charities. This population often strains animal control and animal welfare groups in the area. Educating the public about the new insights into cat-caused bird deaths may encourage cat owners to leave their pets indoors. Promoting the spaying and neutering of pet cats and encouraging the spaying and neutering (or removal or containment) of feral cats on one's property, would help decrease the population of feral cats and the consequential number of birds they prey upon.

## Next Steps:

 Create pet cat and feral cat predation education program and disseminate materials to the general public.

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@detroita	udubon.org		

## Dogs in Natural Areas

Metropolitan Detroit made national headlines when it was estimated that 50,000 feral dogs roamed the city streets in 2013. Since then two other surveys have been conducted estimating 3,000 and 7,500 stray dogs within the city. With such disparate estimates, further surveys of the city are needed. All surveyors agreed that vacant neighborhoods and buildings provide stray dogs with shelter and areas to breed, much like stray cats. The demolition of 10,000 additional vacant homes in 2017 should help reduce the populations of stray dogs and cats within the city. Encouraging people to spay and neuter their dogs, not abandon their pets, and not tether them outside, would help decrease the stray dog population within the city.

People take their pet dogs to natural areas as well to run and exercise. While dogs are allowed in some natural areas on leash, letting a dog run free in land that has been set aside for wildlife is not appropriate. Dogs in natural areas can harm wildlife through direct predation, disruption of nesting (especially ground nesting birds), and harassment. Education and outreach and informative signage in natural areas could help prevent this kind of disturbance.

## Public Activity in Sensitive Areas

Many of the most valuable habitats that remain in Metropolitan Detroit are under public ownership. It is important that public use and access are carefully sited and managed to ensure that habitat values do not become diminished due to human disturbances and habitat degradation. Many of Metropolitan Detroit's parks and recreation departments have developed plans for habitat management and trails. These plans

use a set of guiding principles that makes habitat protection and restoration the highest priorities. Many conservation partners work with neighbors and local schools on stewardship activities to enhance and restore natural areas. While many of the plans are well thought out, there are sometimes instances where plans are not adhered to and thus natural area values are lost. Education and support of top-level management and local area managers would help mitigate this problem.

## Climate Change

There is growing scientific evidence that some birds are already responding to the changing climate. National Audubon Society's 2014 Climate Change Report used statistical models based on the North American Breeding Bird Survey and Audubon Christmas Bird Count datasets to assess geographic range shifts for 588 North American bird species through the end of the century. 314 of these species were classified as climate-endangered or threatened. In many cases both winter and summer ranges are reduced or lost entirely. Many of the species projected to disappear or whose ranges might shrink are those that feed on insects, which are key components of the diets of many of our migratory birds. See Appendix D for a list of Metro Detroit birds that are projected to be threatened most by Climate Change.

Among the most important things that can be done to prepare and mitigate adverse effects is to protect, buffer and connect habitats, and help restore resilient ecosystems.

## Structural Hazards Communication Tower Collisions

A 2012 study funded in part by the American Bird Conservancy and Defenders of Wildlife estimates avian mortality at communication towers in the U.S. and Canada to be 6.8 million birds per year. Neotropical songbirds, which migrate at low elevations and at night, are particularly susceptible to collisions. In an effort to understand which communication tower characteristics attracted migrating songbirds most, a Central Michigan University post-doc now FAA Biologist Joelle Gehring, led a study that monitored communication towers in MI in 2003. With the help of the U.S. Fish and Wildlife Service, this study discovered that towers with solid lights were most dangerous, compared to towers with non-flashing and flashing lights. If steady lights were replaced with flashing lights, avian mortality could be reduced by up to 70% nationwide. The Federal Aviation Administration changed their lighting standards for newly constructed communication towers in 2015. U.S. Fish and Wildlife Service recently began to work with owners and operators of existing towers across Michigan to switch to flashing lights. There are six FCC registered cell phone towers within the City of Detroit.

## Next Steps:

- Contact communication tower owners and encourage them to switch to flashing lights.
- Conduct outreach to community members regarding communication tower-bird collisions.

Window Strikes and Confusion and Mortality from Artificial Lights in buildings six stories or higher. Collisions with windows have emerged as a significant threat to migratory birds in the U.S. and around the world. A 2014 study ran a statistical analysis on 23 local studies, and estimated that between 365 and 988 million birds are killed in the U.S. annually by building collisions. Windows deceive the healthiest individuals as readily as the weakest ones. During the day, birds are confused by reflections of trees, clouds, and even skyline reflected in building glass, and may fly head-on into it because it appears to be habitat. At night, it is thought that the lights on tall buildings confuse the navigation systems of birds unlucky to have such buildings in their flight path. They circle the buildings repeatedly and either die of exhaustion or by colliding with the illuminated building.

Window strikes are most common among low-rise buildings between four and 11 stories tall, accounting for 56% of collisions. Neotropical migrants that travel at night are most impacted, likely due to confusion caused by the artificial lights of these buildings. The 2014 study found that many nationally listed Birds of Conservation Concern were highly vulnerable to building collisions: Wood Thrush, Canada Warbler, and Golden-winged Warblers. Black-throated Blue Warblers and Ruby-throated Hummingbirds, while not Birds of Conservation Concern, are also highly vulnerable to building collisions.

Endorsed by the Sierra Club, Detroit Audubon's Safe Passage: Great Lakes project aims to save thousands (optimistically tens of thousands) of birds each year during night migration by encouraging tall buildings to turn their lights off during Spring and Fall migration. According to scientists at the Field Museum in Chicago, avian mortality at these buildings could be reduced 80% if building lights were off. Turning out those lights will not only spare birds, but money and energy, reducing pollution as well. It can be a win-win-win situation for the environment, building owners and managers, and the birds. The Detroit Audubon Society has requested building organizations, government agencies and property owners in Detroit and surrounding cities to reduce the carnage by turning off lights in tall buildings from 11:00 p.m. to dawn from the second weekend in March through May and from the second weekend in August through October.

Former Michigan Governor Jennifer Granholm showed her support of this effort by issuing a proclamation naming "Safe Passage Great Lakes Days" – March 15 through May 31, and August 15 through October 31, where all state buildings must turn off their lights at 6pm. The City of Southfield also wrote a resolution to encourage building owners to turn off their lights during this sensitive time. Detroit Audubon has been gratified to receive support also from DTE Energy and Ford Motor Company.

## Next Steps:

- Work with Michigan Audubon in the effort to inform people throughout our state of the benefits of simply turning out lights during the bird migration season.
- Led by Detroit Audubon's Research Coordinator and Safe Passage Committee, improve our building monitoring efforts with the help of citizen scientist volunteers, and start a database of avian mortalities and injuries caused by building collisions.
- Improve our Honor Roll system, so buildings who participate in Safe Passage are better acknowledged and aware that they have received this honor.

Contact Person:	,	Detroit Audubon Research	Coordinator,	
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## Bird-Friendly Building Guidelines

Bird populations face many threats including habitat destruction or degradation in wintering, breeding, and stop-over grounds, however collisions with buildings is one of the more serious man-made mortality factors. It is estimated that between 100 million and one billion birds die annually in the United States from bird collisions. Numerous cities including Chicago, New York, and San Francisco have used local surveys to document the incidents of fatal bird strikes. The surveys address the elements of building architecture that pose the greatest risks to birds. Detroit Audubon will be continuing its efforts with citizenled bird casualty surveys that cover downtown Detroit, Southfield, and Troy. Washtenaw Safe Passage, a branch of Washtenaw Audubon, also has a very sophisticated survey program in Ypsilanti and Ann Arbor. The information collected can then be used in the development of Bird Friendly Building Designs and to convince owners to turn-off lights during migration.

## Next Steps:

- Collaborate with American Bird Conservancy (ABC) to host a one-day certified continuing education seminar with local architects to address incorporating bird friendly features into building design.
- Consult with other cities that have implemented bird friendly programs.
- Host a one-day workshop with local architects, light engineers, city planners, developers, etc. to discuss the challenges of implementing bird friendly design.
- Detroit and Washtenaw Audubon will work with ABC to distribute their materials and information to architects and architects in training about bird safe building design.
- Metro Detroit Nature Network and Detroit Audubon will collaborate with Fatal Light Awareness Program (FLAP) Canada and ABC to circulate their materials to homeowners for reducing bird strikes in residential buildings.

- Seek endorsement of bird friendly building design measures from local governmental agencies.
- The Detroit Zoological Society will demonstrate the types of building designs that can be used to reduce hazards. Interpretive signage will accompany these demonstration buildings to inform homeowners.

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## Invasive Vegetation in Urban Natural Areas

Invasive plant species are among the biggest challenges facing our urban natural areas, and hence, the habitat our native bird populations depend upon. Next to outright conversion of land, invasive species and climate change are generally considered the most important threats to biodiversity. Invasive species play a significant role in altering the landscape and fundamental ecosystem processes, decreasing biodiversity, and damaging infrastructure. In an urbanized and fragmented area, invasive species pose a particularly acute threat to remaining natural habitats. Invasive species generally outcompete native plant species, and provide less food, cover and nesting value for native birds than native vegetation does. Species such as reed canarygrass and English and Irish ivies are capable of homogenizing the structure and biota of habitats, creating biological deserts, which provide few, if any, resources for native birds.

The change in species composition in grasslands and forest understories is decreasing habitat for native birds as well. The spread of rhizomatous, perennial grasses and understory weeds such as garlic mustard eliminates bare ground which many native ground-nesting birds require. As mentioned under "Timing of Construction and Revegetation Projects" above, another issue related to managing invasive vegetation is how and when the management occurs. Removing invasive species during the nesting season can be disruptive or even cause nest failure. It is important to plan and implement invasive species removal to coincide with times best for eradication and to avoid disturbance to nesting birds. Introduced and invasive birds can out-compete native birds for essential resources such as food and nesting sites, with aggressive non-native birds such as house sparrows and European starlings often usurping and/or depredating native bird nests and even killing native competitors. These actions can have drastic negative effects on native bird populations already stressed by alteration of their historic habitat.

## Pesticide Reduction

Pesticides can have negative environmental impacts, including those that adversely affect, and even kill, birds.

#### Next Steps:

- Work on education to help minimize use and promote best management practices
- Promote household hazardous collection programs
- · Expand awareness in partnerships with environmental and conservation organizations

## CITIZEN EDUCATION AND ENGAGEMENT

#### Introduction

Whether it's counting birds, listening for frogs, spotting salamanders, watching butterflies or dragonflies, or identifying aquatic invertebrates collected from sediments— there is an increasing and ardent need for citizens to participate in science (Hartig 2014). Further, natural resource and environmental management agencies are frequently challenged with limited resources to properly collect and analyze data to adequately inform management decision-making. Therefore, need for and interest in citizen science is growing.

Citizen science is scientific research and monitoring conducted, in whole or in part, by amateur or nonprofessional scientists (Hartig 2014). One easy way to think of it is as public participation in scientific research and monitoring. Formally, citizen science has been defined as the systematic collection and analysis of data, development of technology, testing of natural phenomena, and the dissemination of these activities by researchers on a primarily advocational basis. For example, a fundamental premise of citizen science is that anyone who watches birds, from backyards to city streets to remote forests, can

help make a contribution of our scientific understanding and management of birds, their habits, and their habitats.

But it is not just scientists that benefit. Being an amateur scientist can be very rewarding as volunteers gain hands-on experience with scientific methods, learn about ecological principles and practices, make a contribution of to the growth and expansion of scientific knowledge, often help solve environmental and natural resource problems, and network with others who have a common interest). Many volunteers welcome the opportunity to just be outside and participate in fieldwork.

# **Citizen Science Programs**

## Detroit River Hawk Watch

Each fall it is amazing to watch hundreds of thousands of raptors migrate across the lower Detroit River from their eastern Canadian breeding grounds and head south to their wintering grounds, some as far away as South America. Raptors use thermals to varying degrees to aid in their migration to save energy for their long journey. Thermals are rising columns of warm air that are caused by the heating of the earth by the sun. A raptor will literally ride up on a thermal, set its wings, and glide downward to the next thermal using little energy. Thermals do not form over water, so as these raptors head south and come upon lakes Erie and Ontario, they have one of two choices: fly east around Lake Ontario or fly west around Lake Erie. Those that move west follow the northern shore of Lake Erie until they reach the mouth of the Detroit River. Turning back is not an option, so they are forced to cross the 4-mile river mouth near Holiday Beach in southwest Ontario to southeast Michigan in the vicinity of Lake Erie Metropark, Humbug Marsh Unit of the Detroit River International Wildlife Refuge, and Pointe Mouillee State Game Area. Lake Erie Metropark is the primary location for the Detroit River Hawk Watch program and hosts an annual Hawk Fest that attracts more than 5,000 birders. These raptors lose altitude as they cross the lower Detroit River, making it easier for them to be observed. To give you a feel of the magnitude of hawk migrations through the lower river, dedicated volunteers recorded an astounding 190,121 broad-winged hawks on September 17, 2011 at Lake Erie Metropark, representing the third highest single-day total recorded at this site.

This predictable hawk migration phenomenon provides U.S. Fish and Wildlife Service (USFWS) with a unique opportunity to involve birders in the systematic collection of annual raptor migration data. The USFWS, its friends group called the International Wildlife Refuge Alliance, and avid birders undertake Detroit River Hawk Watch on an annual basis to: systematically count hawks during their migration season; review and analyze the data; prepare summary reports; and disseminate the data and findings to both managers and the public. A paid counter is employed to work with volunteer counters to collect the data. USFWS oversees the Detroit River Hawk Watch monitoring effort, including quality assurance/quality control and report preparation. A Detroit River Hawk Watch Advisory Committee has also been established to provide citizen advice on all aspects of Detroit River Hawk Watch. Such hawk watch data are invaluable in tracking raptor migrations and providing an early warning signal for changes in trends. Further, these data are also entered into the Hawk Migration Association of North America database to help understand raptor population status and trends on a continental scale.

Website: www.drhawkwatch.org/

Contact person: @journeys.travel

Detroit Audubon Society's Citizen Science Programs

#### Metroparks Grassland Bird Surveys

Detroit Audubon volunteers who are experienced birders do these surveys once per week for 45-minutes to an hour (early mornings) for four weeks in the month of June providing base-line data and later data to evaluate landscape management program success. Participants walk a transect through a piece of grassland habitat and record bird observations (sighting, songs, fly-overs) at set stops along the transect.

For the last two years, we have been doing surveys in Oakwoods Metropark, in partnership with the Huron-Clinton Metroparks.

## Next Steps:

- Continue with monitoring efforts at Oakwoods Metropark.
- Expand grassland monitoring efforts to Lake St. Clair Metropark.

Contact Person:	,	Detroit Audubon Research Coordinator,	
@detroita	audubon.org	'	

Maheras-Gentry Park Restoration – Fall Migration Stopover Survey

Detroit Audubon is a subcontractor on a Greening of Detroit Grant to do bird surveys in this park in November 2016 prior to a project to create native grassland habitat. Monitoring efforts will be conducted at a nearby control site, Alfred Brush Ford Park, that is not to undergo restoration. Restoration is scheduled for early Spring 2017. We could use volunteers who are experienced birders to help with this survey.

## Next Steps:

- Continue monitoring the park after restoration is complete and compare our dataset with that of the control site.
- There is potential to apply for other restoration grants with Greening of Detroit with breeding bird survey data as our priority. We have looked at other grassland restoration sites as well as shoreline restoration sites along the Detroit River.

Contact Person:	,	Detroit Audubon Research Coordinator,	
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## Chimney Swift Surveys

Detroit Audubon recently hired a Research Coordinator to help make this program and other Citizen Science projects more sustainable. Due to the population decline of Chimney Swifts and reduction of accessible chimneys for nesting and roosting, Detroit Audubon has made Chimney Swifts an area of focus for their population monitoring efforts. Detroit Audubon has partnered with the Swift Sanctuary in Farmington, MI which has a chimney with what we think is the highest concentration of Chimney Swifts in a roost in North America. The swifts using this chimney have been counted every morning by Larry Schwitters since 2015, who set up a LiveCam from his remote location in Seattle. The live video feed, known as the Stephen Stackpole Memorial Chimney Swift Live Cam can be viewed on Detroit Audubon's website in real time from April through October.

## Next Steps:

- Expand current Chimney Swift monitoring efforts during the migration and breeding seasons.
- Recruit a network of volunteers to monitor historical roosting sites and to search for new roosting sites
- Ultimately, catalyze the formation of a Chimney Swift Monitoring Network throughout the species entire range.

Contact Person:	,	Detroit Audubon Research Coordinator,	
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#### Detroit Audubon Christmas Bird Count

Nationally, the Christmas Bird Count is in 117th year in 2016. Volunteers spend the day from before sunrise (for owls) to sunset counting both species and numbers of each species as part of this network of counts throughout North America. This count circle (all circles are 15 miles in diameter) is in what is now

mostly urban and suburbanized areas of Oakland County. We need experienced birders to volunteer. This count is usually held the third Sunday of December.

#### Next Steps:

- Recruit network of volunteers to ensure all routes are covered each year.
- For less experienced volunteers, we'd like to provide training in bird identification over the course
  of 1-2 weeks, ending in a bird ID quiz.

Contact Person:		@gmail.com,	, Detroit Audubon Research
Coordinator,	,	@detroitaudubon.org	

## Rockwood Christmas Bird Count

This is a similar count to the "Detroit Audubon Christmas Bird Count", but in the Downriver area with the center of the circle in Rockwood. This circle includes Grosse Ile, Trenton and Elizabeth Park, Oakwoods Metropark, Lake Erie Metropark, Detroit River International Wildlife Refuge, and Point Mouillee. Usually held the closest Saturday to Christmas, but because of the way the holiday falls in some years, it can be on weekdays between Christmas and New Year's Day. Detroit Audubon manages the Grosse Ile route and will be managing the International Wildlife Refuge route in 2016 and beyond, as it requires a permit which often deters volunteers. Detroit Audubon hopes to recruit more volunteers this year to help with local Christmas Bird Counts that need routes covered. This count also features a program for two hours on Grosse Ile where we invite the public to join the count to see what it is like.

#### Next Steps:

- Recruit network of volunteers to ensure all routes are covered each year.
- For less experienced volunteers, we'd like to provide training in bird identification over the course of 1-2 weeks, ending in a bird ID quiz.

Contact Person:	, Detroit Audubon Research Coordinator,	
@detroitaudubon.org	'	

## Project Feeder Watch in February

Detroit Audubon has been advertising this joint program with Cornell Lab of Ornithology and National Audubon for people to count species and species abundance at their feeders or a feeder at a nature center for one day in February. Detroit Audubon is in the process of creating partnerships with school groups in the area to provide bird feeders and seed (donated to us by Wild Birds Unlimited) to so that classrooms can participate in data collection. The project will be highlighted to members in Detroit Audubon's Winter Newsletter and their website.

#### Next Steps:

- We hope to have a more organized effort in the future in the Detroit Metro Area, including a public program at the Belle Isle Nature Zoo.
- We hope to include more classrooms in this project.

Contact Person:	, D	etroit Audubon Research Coordinator,	
@detroita	udubon.org	·	

# Great Backyard Bird Count

Similar to Project Feeder Watch, Detroit Audubon has been promoting this joint program between Cornell Lab of Ornithology and the National Audubon Society that encourages people to go birding in their backyards for as little as 15 minutes on one or more days of the four-day event in February and report their sightings online at birdcount.org. Nationally, the Great Backyard Bird Count is in its 20<sup>th</sup> year and the data collected has highlighted changes in bird movements from population irruptions as well as warm weather patterns.

## Next Steps:

- Promote and encourage Detroit Audubon members and the general public to participate in this bird count.
- We hope to include this in a Public Program at the Belle Isle Nature Zoo.

#### e-Bird

Detroit Audubon field trip leaders enter bird sightings on our field trips into this international database, and we encourage our members to do this after every birding trip they do on their own. Additionally, we enter bird sightings from our days in the field monitoring Black Terns and grassland birds.

#### Next Steps:

- Link Detroit Audubon's eBird profile, complete with all birding lists, to our website and Facebook page.
- Consistently use eBird at all birding events and days in the field.

Contact Person: \_\_\_\_\_, Detroit Audubon Research Coordinator, @detroitaudubon.org

#### **Education and Outreach**

Detroit Audubon's Environmental Education Programs:

## Young Birder's Program

Detroit Audubon has all season programs specifically for young birders between the ages of 6 and 18. These programs are aimed at helping young bird enthusiasts expand their knowledge of birds and birding, and allow them to explore career pathways. All youths are encouraged to attend. Detroit Audubon provides field guides and binoculars to borrow at Young Birder Events. We provide an annual scholarship to 1-2 lucky young birders to attend a birding camp for one week.

#### Next Steps:

- We hope to be able to offer more scholarships to our young birders each year.
- We are planning on expanding to a younger age group in creating the Young Birder's Nestling Program.

Contact Person: , Detroit Audubon Program Coordinator, @detroitaudubon.org or .

## Detroit Audubon Birding Field Trips

Detroit Audubon leads approximately 30 field trips in and around the Metro Detroit Area providing binoculars, field guides, and a birding guide to help with bird identification. Birding field trips are designed and planned for both beginning and expert birders.

## Next Steps:

- Create a network of experienced birder volunteers to help lead these field trips and take our members and other Detroit Metro Area citizens to new birding hotspots.
- Continue these field trips into 2017 and beyond.
- Continue to introduce birding to new audiences.

Contact Person: , Detroit Audubon Research Coordinator, @detroitaudubon.org

Belle Isle Nature Zoo Summer Day Camp

Detroit Audubon partnered with the Belle Isle Nature Zoo for Summer 2015 and Summer 2016 providing environmental education programs focused on birds for the Summer Nature Day Camp. This weekly summer camp has an innovative curriculum designed to meet the social and developmental needs of young campers while giving them enriching experiences in nature. Students investigated the plants and wildlife on the island, while discovering how they can care for the natural world around them. Belle Isle Nature Zoo Summer Nature Camp is divided into two age groups of students: The Grasshoppers at 5 to 7 years old, and the Dragonflies at 8 to 12 years old. Programming focused on mindfulness in nature; with every student group, they were asked to slow down and pay attention to the birds around them. 160 Title 1 students participated in this Summer Camp.

## Next Steps:

Continue education programs at the Summer Nature Day Camp in 2017 and beyond.

Contact Person:	, Detroit Audubon Research Coordina	tor,
@detroita	udubon.org	

#### Classroom visits

Detroit Audubon visits classrooms providing environmental education programs focused on birds. Past visits have included lessons on nature sketching, lessons on bird watching basics, programming around preserved museum specimens, Project FeederWatch, and sensory lessons for special needs classrooms. Detroit Audubon has reached approximately 320 students through classroom visits during 2016, 129 of which were Title 1 students.

#### Next Steps:

- Continue to make connections with Detroit Public Schools and teachers that are interested in our programs.
- Create our own curriculum kits for classroom visits that we can use multiple times.

Contact Person:	, Detroit Audubon Research Coordinator,	
@detroita	audubon.org	

## Children's Hospital of Michigan

Detroit Audubon is working with the Child Life Services of the Children's Hospital of Michigan to provide environmental education to young patients. Programming examples include: common birds of Michigan, Owl identification, and beak adaptations.

## Next Steps:

• Continue relationship with Children's Hospital and expand on our lesson plans to increase number of visits made to hospital each year.

Contact Person:	, Detroit Audubon Research Coordinator,
@detroitaudubon.	org

Detroit Children's Museum Bird Education and General Environmental Education Kits: The Detroit Children's Museum is owned and operated by the Detroit Public Community Schools District for the benefit of the students in the district. The museum has an astounding collection of preserved and taxidermied bird specimens that are loaned to a large number of science classes per year. Detroit Audubon is partnering with the museum to develop educational materials to accompany each kit.

#### Next Steps:

- Secure the services of a graphic designer or graphic design class to design the format for the educational materials to accompany these kits containing preserved bird specimens.
- Develop new kits to be disseminated to Detroit Public Community School District classrooms on topics including: citizen science, the importance of native grasslands, and the biodiversity of the Detroit River.

OMB Control No. 1018-#### Expires ##/##/####

Hold programs on birds at the museum as long as outside funding can be found to support them
(the museum's operational funds restrict it to serving Title I students, but it can go beyond that if
other funding is available to support those efforts. With external funding kits could also be
provided to home schoolers and others.

Contact Person:	Detroit Audubon Research Coordinator,	
@detroitaudubon.org		

## Public Education Talks

Detroit Audubon gives free talks to the general public at nature centers and public libraries. Topics have included: gardening for birds, beginning bird watching, and Black Tern research.

#### Next Steps:

- Detroit Audubon will be holding monthly programs starting in 2017 with a wider range of topics at the Belle Isle Nature Zoo.
- We hope to continue our public programs completed in 2016 into 2017 and beyond.

Contact Person:	,	Detroit Audubon Research Coordinator,	
@detroita	udubon.org	•	

#### Detroit Audubon Symposium

Detroit Audubon hosted a 2016 Annual Symposium with the theme "Detroit: Take a Walk on its Wild Side." This was a free series of talks at the Belle Isle Nature Zoo. Some of the topics included: Common Tern Conservation, Kirtland's Warbler Sky Art, Peregrine Falcons in Detroit, Making Detroit a Green City, Grassland Restoration, and the Comeback of Bald Eagles in Detroit. Over 60 people attended the Symposium.

## Next Steps:

• We are already planning to have our next Annual Symposium in April of 2017 with an array of speakers from local organizations and non-profits.

Contact Person:	ļ,	Detroit Audubon Research Coordinator,	
@detroita	udubon.org	•	

#### RiverWalk Programs

Detroit Audubon and U.S. Fish and Wildlife Service provide seasonal programs along Detroit's RiverWalk at the birding station at Gabriel Richard Park. Programs are designed to assist youth and adults in engaging with local wildlife. In 2016, 30 Title 1 students participated in this program. Winter programs focus on waterfowl that winter on the Detroit River, spring and fall programs focus on migration, and summer programs focus on nesting birds.

# Next Steps:

 We hope to increase our number of walks at Gabriel Richard Park and have some education and outreach about the area to increase its use by the general public.

Contact Person:	, Detroit Audubon Research Coordinator,	
@detroitaudubon.org		

## Chimney Swift Programs

The Swift Sanctuary of Farmington and Detroit Audubon have partnered to provide programming around roosting Chimney Swifts. We organize two Swift Night Out events each year (spring and fall) at the Swift Sanctuary, with the fall one actually a mini-festival complete with educational programming, swift observation, live music, and refreshments. This event made the front page of the Detroit Free Press in September 2016 and had over 500 people in attendance. Over 14,000 chimney swifts used the chimney for roosting each night of that two-night program in late September. Programming included a presentation on Chimney Swift natural history and a live projection of the birds inside the chimney. The

live feed is underwritten by Detroit Audubon in partnership with the Swift Sanctuary in Farmington Hills, MI and hosted on Detroit Audubon's website from April to October. In Spring 2016, there was also a program around Chimney Swift natural history to welcome the Swifts back as they migrated up from their wintering grounds in South America.

## Next Steps:

- We'd like to organize an annual Swift Night Out event and other programs surrounding Chimney Swifts for the general public and school groups.
- We are planning to write Chimney Swift education programs to be used by educators in combination with the live webcam.

Contact Person:	, Detroit Audubon Research Coordinator,	
@detroita	udubon.org	

## Maheras Gentry Park Education Programing

The Greening of Detroit and Detroit Audubon are working together to provide educational programming in conjunction with formal bird monitoring and restoration at Maheras Gentry. Students will learn about bird monitoring, how to identify local birds, and data collection with a focus on seeing themselves as scientists. Past environmental programming at Maheras Gentry with a class of 60 Title 1 students focused how litter affects local wildlife, particularly birds, and a litter cleanup before restoration began.

#### Next Steps:

- Restoration work will begin early Spring 2017.
- Students will return as citizen scientists for a day of education and data collection in Summer of 2017.
- Monitoring work will occur in November of 2017.
- Potential for another grant with Greening of Detroit to restore the shoreline of Maheras Gentry, which would include educational programs on shorebirds, shoreline habitat, and the importance of conserving both.

Contact Person:	,	Detroit Audubon Research Coordinator,	
@detroita	audubon.org	•	

## Pheasant Watch

In 2016, Detroit Audubon began a new program celebrating Ring-necked Pheasants and grassland habitat in Detroit. Currently, elementary science programming is being developed around Pheasants and Grasslands. Programming will be available for local teachers to implement and Detroit Audubon will visit classrooms for Pheasant and Grassland lessons. Planning for a Pheasant walk is also underway. As part of Pheasant Watch, Detroit Audubon is compiling a list of local Ring-necked Pheasant sightings and creating an online art gallery for Pheasant themed art.

## Next Steps:

- Complete program development around Pheasants and Grasslands.
- Connect with teachers and public schools that might be interested in our programs.
- Host local Pheasant bird walks in the Metro Detroit Area.

Contact Person:	, Detroit Audubon Research Coordinator,	
@detroita	audubon.org	

## **Birding Opportunities and Public Events**

ByWays to FlyWays Bird Driving Tour Map

Over 350 species of birds have been identified in the Detroit River corridor by Detroit Audubon and other eBird users. With knowledge of these many exceptional birding opportunities in the Detroit-Windsor metropolitan area, Metropolitan Affairs Coalition, the U.S. Fish and Wildlife Service, Michigan Sea Grant, the International Wildlife Refuge Alliance, Wild Birds Unlimited, and the National Fish and Wildlife Foundation developed a unique "Byways to Flyways" bird driving tour map to promote 27 exceptional birding sites throughout the Windsor-Detroit metropolitan area (Figure 4). Included within these sites are many Important Bird Areas (IBAs) identified by National Audubon Society, two "Wetlands of International Importance" identified under the international Ramsar Convention (i.e., Point Pelee National Park in Ontario and Humbug Marsh in Michigan), several Christmas Bird Count sites, and two internationally recognized hawk watch sites. These world-class birding opportunities are helping to reconnect many watershed residents to stopover habitats right in there backyard.

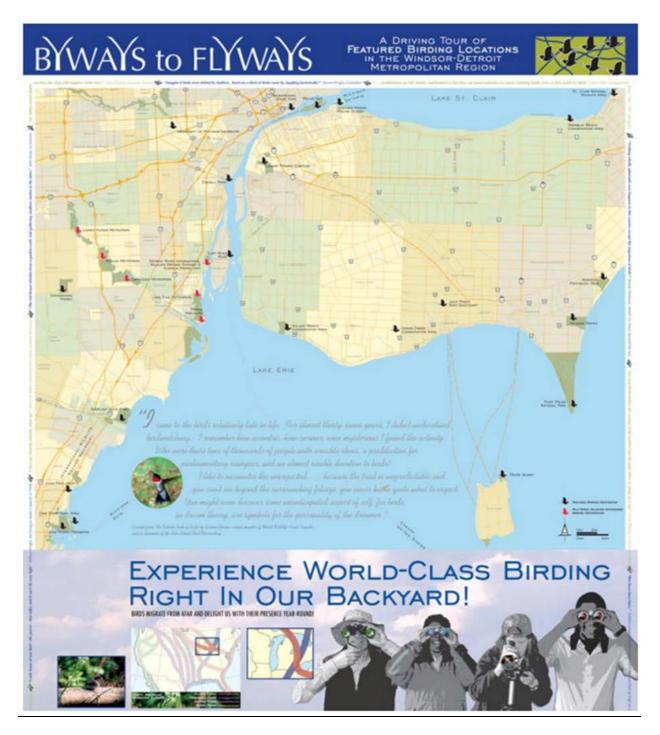


Figure 4. Byways to Flyways bird driving tour map (map credit: Metropolitan Affairs Coalition).

## Hawkfest

This is a two-day event for the whole family focusing on birds of prey (eagles, hawks, falcons, and owls) and the annual fall hawk migration over Lake Erie Metropark. It is a great weekend held each September that is focused on birds of prey. It is a great weekend of games, crafts, guest speakers, and fun. Live birds of prey are also on hand. Typically, 4000 people attend Hawkfest.

International Migratory Bird Day

This event recognizes the movement of nearly 350 species of migratory birds from their wintering grounds in South and Central America, Mexico, and the Caribbean to nesting habitats in North America, and is celebrated on the second Saturday in May at three locations in Canada's Priority Natural Area and two DRIWR locations.

#### World Wetlands Day

Observed worldwide each year on February 2nd to celebrate in importance of wetlands, including "Wetlands of International Importance" designated under the Ramsar Convention in 1971 (over 1,200 high school students annually participate in a wetlands' program and exposition at Gibraltar Carlson High School). This event has a major emphasis on how birds use wetlands.

## National Wildlife Refuge Week

This event is celebrated each October to showcase the premier land conservation network in the world that includes Detroit River International Wildlife Refuge (a major emphasis is on birds).

#### Pointe Mouillee Waterfowl Festival

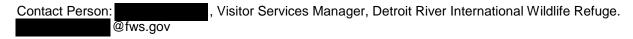
Held annually at Point Mouillee State Game Area on the first weekend after Labor Day and right before duck hunting season opens – it is an annual tradition that showcases duck hunters' abilities, celebrates wildlife art and hunting equipment, and attracts 8,000-10,000 enthusiasts.

## Eagle Tours

An annual tradition where participants watch more than 100 Bald Eagles that overwinter at DTE Energy's Monroe Power Plant in Monroe, Michigan.

#### Detroit River Front Bird Walks

The Detroit River Front Conservancy, the Detroit Audubon Society, the U.S. Fish and Wildlife Service, and Detroit Parks and Recreation opening a unique birding spot along the Detroit RiverWalk at Gabriel Richard Park in downtown Detroit. This unique birding spot has four wildlife spotting scopes (one universally-accessible) and an interpretive panel identifying common birds like Canvasback Ducks, Peregrine Falcons, Bald Eagles, Canada Geese, and Mallard Ducks that can be seen from this location, and educational programming that is held four times per year to promote an urban birding experience available right in our backyard.



## Erie Shores Birding Association

Erie Shores Birding Association of Monroe, Michigan, was organized in September of 1986 for the purpose of promoting the observation and study of birds and other related wildlife, their environment and their conservation. This Association offers an opportunity to share experiences and enjoy the company of others who have an interest in bird life. Its members include all levels of expertise - from the backyard birder to world-traveled experts.

## Next Steps:

- Expand field trip opportunities.
- Work in partnership with the Metro Detroit Nature Network to achieve a coordinated educational
  effort.

Contact Person: , @sbcglobal.net

## SPECIES SPECIFIC PROJECTS

## **Common Tern Monitoring and Management**

Common Terns (COTE) naturally nest on gravel bars, beaches, and islands. In Michigan, they nest on an-made structures including protection piers, man-made islands, and other structures. In many cases

they are susceptible to habitat degradation, predators, weather events, and human disturbance. In southeast Michigan, they nest in several locations on the Detroit River and Lake St. Clair including Belle Isle, both Grosse Isle protection piers, and one of the lighthouses in the St. Clair Flats. This project will be coordinated by the Detroit Zoological Society (DZS) and include cooperation with the Detroit River International Wildlife Refuge (DRIWR) and the Michigan Department of Natural Resources (DNR).

Efforts to improve monitor and improve breeding success will vary by site and include:

• Belle Isle – This site is located on the Detroit Water and Sewage water intake protection peninsula on the eastern edge of the island. The location of a historic nesting COTE colony that numbered in the hundreds, but was abandoned in the early 1960s when the gravel nesting area was replaced with grass and vegetation became established throughout the site. DZS, DRIWR, and Detroit Water and Sewerage Department restored the site in 2009 to encourage common terns to nest in this location (Figure 5). Sound systems and decoys were used to attract terns and the site was visited in 2010, nesting occurred in 2011, and the first chick fledged in 2012. Low numbers of birds use the site and it needs annual habitat management and predator control.





Before After

Figure 5. Common Tern habitat restoration on Belle Isle.

• Grosse Isle – There are two colonies of terns located on the protection piers at both of the island's bridges. The county bridge site has had habitat work and monitoring by DRIWR staff, but recently succession and high water levels has reduced the use of this site by common terns. Due to bridge operations and vulnerability to predators, this is not an ideal nesting location. Discussions will occur to determine if any habitat management should occur on this site, or if vegetation should be allowed to grow making the site inhospitable for terns. If that is the case, it is expected that the terns would be displaced to other sites such as Belle Isle or even the new nesting location at Stony Island.

The second Grosse Isle colony is located at the toll bridge. This site is privately owned and inaccessible. It is recommended that the Metro Detroit Nature Network work with the bridge company to monitor the site two or three times each nesting season.

• South Channel Lights – The most northern Metro-Detroit COTE colony is located on the southern of two light houses in the St. Clair Flats (Figure 6). These decommissioned light houses are owned and managed by the non-profit Save Our South Channel Lights (SOSCL). Both lights were in disrepair before SOSCL assumed ownership and the protection area had eroded away. SOSCL restored the protection walls which included land area suitable for COTE. It is not known when this site was colonized by terns, but its use was discovered in 2011. The site was visited in 2012 and there were about 60 nesting COTE pairs between the two houses. Detroit Zoological Society and SOSCL began managing the front house for terns in late 2012 including vegetation removal and bi-weekly monitoring. All nesting shifted to the front house and it has had continued vegetation management and monitoring since. Detroit Zoological Society and SOSCL will be adding additional improvements to the site including adding a gravel base, removing hazards, and continued vegetation management.



Figure 6. Common Tern colony in the St. Clair Flats.

• Stony Island – This island is owned by the Michigan Department of Natural Resources (DNR) and is undergoing habitat restoration in 2016 and 2017. The Friends of the Detroit River has received Great Lakes Restoration Initiative funding through NOAA for the restoration effort and this project includes adding several shoals to reduce erosion on the island. Several of these shoals have been designed to provide suitable nesting habitat for common terns and once work is completed in 2018 Detroit Zoological Society will work with the DNR to determine if the use of decoys and sound system should be employed to help attract terns. The DZS has committed to monitor this site several times each nesting season.



Figure 7. Stony Island north shoal restoration.

# Next Steps:

- Continue monitoring Common Terns on Belle Isle.
- · Complete Restoration of Stony Island.

Contact Person: @dzs.org

**Osprey Monitoring and Management** 

The Michigan DNR partnered with the Detroit Zoological Society and Huron Clinton Metropark Authority to introduce osprey to Southeast Michigan (Figure 8). This program began with the relocation of six osprey chicks from nests in northern Michigan to Kensington Metro Park in 1988. For the next nine years, up to six chicks were hacked annually at either Kensington or Stoney Creek Metro Park. Osprey migrate to South or Central America and return to nest two to three years after their hatch year (Figure 9). The first hacked osprey returned to the nesting tower in 2001 and the first recorded nesting happened the next year. The Metro Detroit population has continued to increase, utilizing not only nesting platforms but cell towers. There were at least 39 recorded nests in 2016.



Figure 8. Osprey nesting tower.

The citizen volunteers that assisted with the hacking program formed a non-profit organization, Michigan Osprey (http://michiganosprey.org), to continue monitoring the Osprey once they started nesting in the Metro area. This group monitors the success of each known nest and investigates reports of new nests. They work with the Michigan DNR to band chicks and coordinate with the local cell towers and service companies to access chicks nesting on the towers. Since 2013, they have been funding and coordinating the placement of satellite telemetry units on Osprey chicks to track the Osprey migratory routes, identify stopover sites and determine feeding areas during migration. They are also work on educational outreach to schools and the public.



Figure 9. Osprey migration to South America.

#### Next Steps:

- Compile long-term trend data on Osprey and make them publicly-accessible.
- Work in partnerships to continue to utilize technology to monitor Osprey.
- Recruit and train volunteers to support Osprev.

Contact Person: , @michigan.gov

### **Peregrine Falcon Monitoring and Management**

During the 1960s the United States Peregrine Falcon population declined precipitously due to pesticide use. The shells of Peregrine Falcon eggs became extremely fragile because adult birds had accumulated DDT, a pesticide that interfered with calcium metabolism. By 1968, there was no known successful Peregrine nesting east of the Mississippi River.

In the 1980s, several Midwest cities, including Michigan, began creating Peregrine Falcon Restoration Plans. After approving these plans, captive chicks from breeders were raised in hacking boxes, with minimal human contact, and once fledging occurred the young birds were left to survive on their own (Figure 10). In 1986, the Michigan Department of Natural Resources (MDNR) began hacking peregrine falcon chicks in downtown Grand Rapids. In 1987, the program was expanded to Detroit's Guardian Building and that year, five Peregrine chicks were hacked. In in 1988 seven chicks were hacked. In 1992 a pair of wild Peregrines nested on the Book Building, however, the eggs laid were on a ledge that flooded, and the eggs failed to hatch. A nesting box was installed, and on what would have been the hatching date, two "foster" chicks (from a breeder) were introduced to pair. They successfully raised and fledged from the Book Building.

Since 1993, there has been continued successful nesting of wild Peregrines in Detroit at several sites including the Book Building, and the Fisher Building. Once successful wild nesting occurred, the program focus shifted from hacking chicks, to focusing on safe and secure nesting and fledging sites. This often

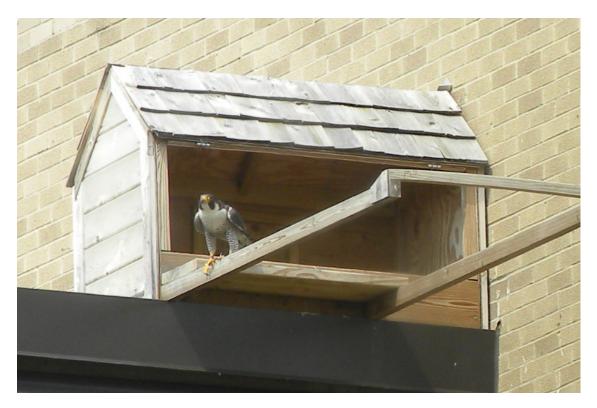


Figure 10. Peregrine Falcon hacking box.

meant working in close cooperation with building managers to have nesting boxes or trays placed on the buildings, while the nest sites were actively monitored for nesting activity.

When the chicks reach18-22 days old, they can be safely banded for future identification and tracking. Media is often invited to attend the bandings to help spread the word about peregrine recovery and to give the building managers credit for their assistance. Two specific examples stand out as excellent examples of partnerships and media.

The Michigan Metro Girl Scouts had an active peregrine nest outside of one of their offices on the Fisher Building. Each year the Girl Scouts would have some lessons about peregrines as they would earn a badge requirement. They would select few of the scouts to be present at the banding event and were able to see the birds up-close. Always the media would be there to record the event often talking with the girl Scouts. What a thrill for the girls.

Another example occurred in 2003, at the former Campbell Ewald Building (now General Motors Tech Center building) in Warren. Video cameras were in placed in strategic, non-obtrusive locations, and video of the active nest was livestreamed into Warren classrooms where teachers could use the footage for class instruction.

The original MDNR goal was to have 10 successful nesting pairs of Peregrine Falcons by the year 2000. It was thought that southeast Michigan and specifically the Metro-Detroit area, could sustain perhaps three pairs. We learned that Peregrines actually had smaller territories than what was originally thought. Currently, Detroit has 5 successful nesting sites. The Metro- Detroit Tri-County area has an additional 5 successful nesting sites, with 8 more sites in the general SE Michigan area (including Flint, Ann Arbor and Monroe County). It is phenomenal that a Federally Endangered species would go from no successful nests to 17 successful sites in the backyard of the most populated portion of the state.

While the 2000 goal was met, Peregrines are still on the Michigan Endangered Species list. To assist in further recovery, securing safe nesting and fledging sites is still a top priority. Informed observations are a key in this effort. Timing banding events for each location requires many observations. These events, with the media attention they get, bring greater education and awareness to a valued resource. Another key element in the success of the program has been in handling sick or injured Peregrines. When adult or young falcons occasionally get injured or sick, rehabilitation is a key. The Detroit Zoological Park and raptor rehabilitator Dave Hogan have been essential in assisting with rehabilitation and subsequent releases of sick or injured peregrines. The scope or handling this program has increased over the years. Informed observers help with making efficient, quick actions for recovery in these cases.

### Next Steps:

- There is a need to train and inform existing volunteers where they occur, and to expand the
  number of volunteers at sites where there are not sufficient "eyes". This can be done in several
  ways, and will need a widening of collaborative efforts with other organizations. An example
  would be to coordinate with a local school.
- A Peregrine Falcon education program is being developed for students in the tri-county area (Macomb, Oakland and Wayne Counties).
- Monitoring during the 2017 nest season.

Contact person:	,	Southeast Michigan Peregrine	Falcon Coordinator,	Michigan
Department of N	atural Resources,	@yahoo.com		

### **Black Tern Monitoring**

Detroit Audubon has sustained a working partnership with National Audubon, MI Department of Natural Resources, the Detroit Zoo, and the Fish and Wildlife Service since 2013 on a monitoring effort of the Black Tern in St. Clair Flats (Figure 11). A Species of Special Concern for the state of Michigan, the Black Tern has seen steady population declines over the last 50 years. At first volunteer-run, this project will now be spearheaded by Detroit Audubon's Research Coordinator, who took over the volunteer effort in 2016. Additional volunteers are needed for safety and assistance in data collection. We hope to continue monitoring the St. Clair Flats colony, the largest remaining colony in MI, into 2017 and beyond. We hope our findings can determine the causes of the population's decline and lend managers insights into strategies that will conserve the remaining population. There is potential for this monitoring project to expand to other areas where Black Tern colonies have been found in the State of MI.

Detroit Audubon leads education and outreach events on Harsens Island as well as in the metro Detroit Area regarding the Black Tern project in the form of informative talks and a fundraising cruise that allows attendees to view the Black Terns from a distance with binoculars.

## Next Steps:

- Continue to improve monitoring efforts in 2017 and beyond with the help of a consistent Staff member.
- Work with National Audubon to acquire funding to expand Black Tern monitoring efforts at other colonies found in the state of MI.
- Recruit and Train a student volunteers to assist in data collection.



Photo by Diane Cheklich



Photo by Diane Cheklich

Figure 11. Black Tern monitoring.

# **CONCLUSIONS AND TOP PRIORITIES FOR THE NEXT FIVE YEARS**

Approximately 47 million people in the United States, 16 years of age and older, observed birds around their home and on trips in 2011 (Carter 2011). A large majority, 88% or 41.3 million people, observed birds around the home, while 38% or 17.8 million people, took trips away from home to go bird watching. Participants averaged 110 days of birding in 2011. In Michigan, Carter (2011) reported that there are 2.015 million birders and that 24% of the state population participated in birding, higher than the national average of 20%.

The economic benefits of birding to local communities are remarkable. For example, the national economic benefits of birding visitation to National Wildlife Refuges alone totaled \$257 million in 2011 (Carver and Caudill 2013). This is the total monetary value of economic activity generated by birding

visits. In turn, this final demand generated \$73.9 million in job income and 3,269 jobs (Carver and Caudill 2013).

As noted in the introduction of this Metropolitan Detroit Bird Agenda, one key goal is to identify high priority actions and "next steps" that can be taken over the next five years to move forward on this important conservation issue. It is not feasible to move forward on all next steps due to resource limitations and time constraints. Therefore, the following actions are identified as high priorities over the next five years:

## Habitat loss and fragmentation:

- Recruiting new partners to the Metro Detroit Nature Network that will participate in the Urban Bird Treaty as described in this document.
- Expand cooperative programs for bird habitat conservation (e.g., creating more stop over habitat and wildlife corridors, expanding corporate wildlife habitat programs lie Wildlife Habitat Council).
- Supporting and expanding green infrastructure programs.
- Expanding school yard and backyard habitat projects.

#### Hazard Reduction:

- Expand Safe Passage.
- Promote Bird Friendly Bird Design including offering training for architects on bird friendly design.
- Coordinate the timing of construction and re-vegetation projects (e.g., mowing schedules, etc.).

## Citizen Science Programs:

- Compile long-term, citizen science, trend data on peregrine falcon and osprey in southeast Michigan and broadly disseminate this information to show the value and benefit of such programs.
- Expand peregrine falcon and osprey monitoring through citizen science to ensure long-term sustainability of these programs.
- Expand black tern and grassland bird monitoring programs under the leadership of Detroit Audubon.
- Expanding participation in Christmas Bird Counts.
- Expanding backyard feeder watch program.
- Expanding monitoring under the Safe Passage Program.

To help recruit new partners and volunteers for this important bird conservation work the Metro Detroit Nature Network will convene an Urban Bird Summit within one year. This Urban Bird Summit will review progress on key issues, recruit new partners, and to help identify and seek small grant funding to support the above projects. This important Bird Agenda work will also be helpful in addressing the Metro Detroit Nature Network and the U.S. Fish and Wildlife Service's Urban Wildlife Conservation Program goals of developing develop the next generation of conservationists in urban areas because that is now where 80% of all U.S. citizens live.

Finally, this important work of the Metropolitan Detroit Bird Agenda will be guided by the philosophy of adaptive management where assessments are made, priorities set, and actions taken in an iterative fashion for continuous improvement. This will also help ensure long-term sustainability of partner collaborations that will be critical to achieving our common bird conservation goals.

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# **Appendix A** - Letter to USFWS from the Metro Detroit Nature Network

# Metro Detroit Nature Network

13 March 2017

National Coordinator Urban Bird Treaty Program U.S. Fish and Wildlife Service

Dear

On behalf of the Metro Detroit Nature Network, we are pleased to nominate Metropolitan Detroit as an Urban Bird Treaty City. As required, attached please find a copy of our Urban Bird Treaty Action Plan.

There are over 350 species of birds that are regularly observed and recorded in Metropolitan Detroit area. Key avian attributes of our metropolitan region include:

- It is situated at the intersection of the Atlantic and Mississippi Flyways;
- Over 350 species of birds have been identified in the corridor;
- 30 species of waterfowl have been documented using the corridor;
- More than 300,000 diving ducks use the lower Detroit River as stopover habitat during migration;
- The lower Detroit River is one of the three best places to watch raptor migrations in the U.S., with 23 species of raptors migrating across the river;
- Pointe Mouillee, Erie Marsh, and St. Clair Flats, one of the largest freshwater deltas in the world, are important stopover points for feeding for migratory shore birds during fall migration;
- The corridor has four "Important Bird Areas" designated by National Audubon Society;
- In 2011, Ducks Unlimited identified Metropolitan Detroit as one of the top ten metropolitan areas for waterfowl hunting in the U.S.;
- Detroit River and western Lake Erie offer exceptional birding opportunities a ByWays to FlyWays Bird Driving Tour features 27 unique birding sites in southwest Ontario and southeast Michigan;
- This corridor has been recognized for its biodiversity in the North American Waterfowl Management Plan, the United Nations Convention on Biological Diversity, the Western Hemispheric Shorebird Reserve Network, and the Biodiversity Investment Area Program of Environment Canada and U.S. Environmental Protection Agency;
- Humbug Marsh in Trenton and Gibraltar, Michigan has been identified as a "Wetlands of International Importance" under the International Ramsar Convention;
- The Detroit River and western Lake Erie are part of the Detroit River International Wildlife Refuge, the only international wildlife refuge in North America;
- The Detroit River is the first river in North America to receive both American Heritage River and Canadian Heritage River designations; and

 There are many important upland sites for neo-tropical migratory songbirds during spring and fall migration.

As noted in our Bird Agenda, one key goal is to identify high priority actions and "next steps" that can be taken over the next five years to move forward on this important conservation issue. It is not feasible to move forward on all next steps due to resource limitations and time constraints. Therefore, the following actions are identified as high priorities over the next five years:

## Habitat loss and fragmentation:

- Recruiting new partners to the Metro Detroit Nature Network that will participate in the Urban Bird Treaty as described in this document
- Expand cooperative programs for bird habitat conservation (e.g., creating more stop over habitat and wildlife corridors, expanding corporate wildlife habitat programs lie Wildlife Habitat Council)
- Supporting and expanding green infrastructure programs
- Expanding school yard and backyard habitat projects

### Hazard Reduction:

- Expand Safe Passage
- Promote Bird Friendly Bird Design including offering training for architects on bird friendly design
- Coordinate the timing of construction and re-vegetation projects (e.g., mowing schedules, etc.)

#### Citizen Science Programs:

- Compile long-term, citizen science, trend data on peregrine falcon and osprey in southeast Michigan and broadly disseminate this information to show the value and benefit of such programs
- Expand peregrine falcon and osprey monitoring through citizen science to ensure longterm sustainability of these programs
- Expand black tern and grassland bird monitoring programs under the leadership of Detroit Audubon
- Expanding participation in Christmas Bird Counts
- Expanding backyard feeder watch program
- Expanding monitoring under the Safe Passage Program

To help recruit new partners and volunteers for this important bird conservation work the Metro Detroit Nature Network will convene an Urban Bird Summit within one year. This Urban Bird Summit will review progress on key issues, recruit new partners, and to help identify and seek small grant funding to support the above projects. This important Bird Agenda work will also be helpful in addressing the Metro Detroit Nature Network and the U.S. Fish and Wildlife Service's

Urban Wildlife Conservation Program goals of developing develop the next generation of conservationists in urban areas because that is now where 80% of all U.S. citizens live.

Thank you for your consideration. Please don't hesitate to contact us with question.

Ph.D.

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# Appendix B - Support letter from the City of Detroit for the Metropolitan Detroit Bird Agenda



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February 23, 2017

, National Coordinator Urban Bird Treaty Program U.S. Fish and Wildlife Service

Dear

The City of Detroit's Planning and Development Department is pleased to support the Urban Bird Treaty Action Plan being submitted for Metropolitan Detroit by the Metro Detroit Nature Network.

Detroit is committed to becoming a more sustainable, healthy and economically robust city. We recognize that public green space is critical to the strength of every neighborhood. Well-maintained and managed open space can help promote healthy lifestyles, reduce crime, encourage community interaction, increase resilience to climate change and other challenges, and provide educational opportunities. In areas of growth, these places can serve as catalysts for economic development. In areas of decline, they can provide an essential stabilizing effect.

At a time when many urban areas are faced with critical habitat loss due to development pressure, Detroit has actually seen bird populations grow. As Detroit works to attract new residents and industry, we are actively seeking opportunities to preserve this natural advantage and re-imagine how Detroiters interact with open space. The Metro Detroit Nature Network's vision that all people in the metropolitan Detroit region have access to and actively steward nature and promote ecosystem sustainability aligns neatly with this vision, and we value their leadership in this application.

The natural capital of our region is truly continentally-significant and this Metro Detroit Nature Network partnership is in a unique position to foster regional cooperation on conservation, sustainability of these natural resources, and outdoor recreation. Their efforts to expand local citizen science, environmental education, and support for local conservation organizations are inspiring.

The Detroit Planning and Development Department understands that this designation can provide numerous benefits, including grant opportunities, and we always welcome opportunities to partner and leverage existing programs and funds to extend benefits and improve quality of life even further. We strongly supports this initiative.

We would be honored to become your next Urban Bird Treaty City in the United States.



# Appendix C - Oakland County Parks

County Park	Acreage	Habitat Note	Citizen Science Programs
Addison Oaks	140	46% of the park is identified as potential natural area by MNFI, including open space, natural areas and wetlands in the headwaters of the Clinton River watershed	Grassland Bird Survey, NestWatch, Christmas Bird Count
Catalpa Oaks	24	Open space in an urban area	
Glen Oaks	122	Woodlands along west boundary and south of the creek at the north boundary. No-mow areas filter and slow rainwater before it enters the creek.	
Groveland Oaks	361	22% of the park is identified as potential natural area by MNFI; including natural areas that can be enjoyed from the park's trail system	NestWatch
Highland Oaks	302	45% of the park is identified as potential natural area by MNFI; including rolling hills, wetlands and old pastures in the headwaters of the Shiawassee River	Grassland Bird Survey, NestWatch
Independence Oaks	1286	71% of the park is identified as potential natural area by MNFI; including ecologically significant wetlands and natural areas within the headwaters of the Clinton River watershed	Grassland Bird Survey, Feeder Watch, NestWatch, Christmas Bird Count, Annual
Lyon Oaks	1041	46% of the park is identified as potential natural area by MNFI; including 800 acres of environmentally sensitive wetlands in the headwaters of the Huron River watershed	NestWatch
Orion Oaks	916	36% of the park is identified as potential natural area by MNFI; including open space and natural areas in the Clinton River watershed	Grassland Bird Survey, NestWatch, Christmas Bird Count
Red Oaks	141	36% of the park is identified as potential natural area by MNFI; including wooded areas surrounding the Red Oaks Nature Center	
Rose Oaks	640	84% of the park is identified as potential natural area by MNFI; including gently rolling open meadows and wooded uplands, valuable wetlands and frontage on several glacial lakes	Grassland Bird Survey
Springfield Oaks	333	15% of the park is identified as potential natural area by MNFI; including extensive wetlands and upland complex within the Clinton River watershed; park also contains a demonstration area for stormwater and water quality best management practices	
Waterford Oaks	199	15% of the park is identified as potential natural area by MNFI; including	NestWatch

		extensive wetlands and upland complex within the Clinton River watershed; park also contains a demonstration area for stormwater and water quality best management practices	
White Lake Oaks	238	33% of the park is identified as potential natural area by MNFI; including natural areas along the boundary; golf course also incorporates no-mow areas that filter and slow rainwater before it enters the creek	

Appendix D - National Audubon Climate Change Report: Data Summary for Michigan Species

Bird Names	Summer Range Lost	Winter Range Lost
Bohemian Waxwing Bombycilla garrulus	100%	52%
Blackburnian Warbler Setophaga fusca	100%	
Evening Grosbeak Coccothraustes vespertinus	98%	58%
Black-throated Green Warbler Setophaga virens	98%	30%
Mourning Warbler Geothlypis philadelphia	96%	
Nashville Warbler Oreothlypis ruficapilla	95%	35%
Scarlet Tanager Piranga olivacea	94%	
Hooded Merganser Lophodytes cucullatus	92%	65%
Magnolia Warbler Setophaga magnolia	92%	44%
American Redstart Setophaga ruticilla	90%	26%
Veery Catharus fuscescens	90%	
Purple Finch Haemorhous purpureus	89%	59%
Chestnut-sided Warbler Setophaga pensylvanica	88%	
Yellow-bellied Sapsucker Sphyrapicus varius	88%	3%
Pine Grosbeak Pinicola enucleator	87%	37%
Northern Harrier Circus cyaneus	86%	5%

Bird Names	Summer Range Lost	Winter Range Lost
Black-and-white Warbler Mniotilta varia	84%	46%
Red-breasted Nuthatch Sitta canadensis	82%	42%
Wood Thrush Hylocichla mustelina	82%	46%
Red-breasted Merganser Mergus serrator	82%	51%
Bobolink Dolichonyx oryzivorus	80%	
Brown Creeper Certhia americana	79%	20%
White-breasted Nuthatch Sitta carolinensis	79%	36%
Bufflehead Bucephala albeola	79%	42%
Bank Swallow Riparia riparia	79%	
Hairy Woodpecker Picoides villosus	78%	30%
Ruffed Grouse Bonasa umbellus	77%	46%
Common Redpoll Acanthis flammea	77%	38%
Mallard Anas platyrhynchos	75%	9%
Hermit Thrush Catharus guttatus	74%	31%
Bald Eagle Haliaeetus leucocephalus	74%	58%
White-throated Sparrow Zonotrichia albicollis	74%	19%

Bird Names	Summer Range Lost	Winter Range Lost
American Kestrel Falco sparverius	72%	2%
Common Merganser Mergus merganser	72%	39%
Ring-billed Gull Larus delawarensis	71%	32%
Golden-crowned Kinglet Regulus satrapa	70%	17%
Swamp Sparrow Melospiza georgiana	69%	17%
Ovenbird Seiurus aurocapilla	67%	75%
American Black Duck Anas rubripes	63%	64%
Least Flycatcher Empidonax minimus	61%	93%

Common Goldeneye Bucephala clangula	61%	35%
Tree Swallow Tachycineta bicolor	61%	57%
Pine Siskin Spinus pinus	60%	42%
Common Loon Gavia immer	56%	75%
Wild Turkey Meleagris gallopavo	49%	87%
Herring Gull Larus argentatus	38%	56%
Baltimore Oriole Icterus galbula	25%	68%

# Appendix E - 7County Regional Species List (eBird observations)

Black-bellied Whistling-Duck
Greater White-fronted Goose
Graylag Goose (Domestic type)
Snow Goose
Ross's Goose
Brant
Cackling Goose
Canada Goose
Mute Swan
Trumpeter Swan
Tundra Swan
Muscovy Duck (Domestic type)
Wood Duck
Gadwall
Eurasian Wigeon
American Wigeon
American Black Duck
Mallard
Mallard (Domestic type)
Blue-winged Teal
Cinnamon Teal
Northern Shoveler
Northern Pintail
Green-winged Teal
Canvasback
Redhead
Ring-necked Duck
Tufted Duck
Greater Scaup
Lesser Scaup
King Eider
Common Eider
Harlequin Duck
Surf Scoter
White-winged Scoter
Black Scoter
Long-tailed Duck
Bufflehead
Common Goldeneye
Barrow's Goldeneye

Red-breasted Merganser Ruddy Duck Northern Bobwhite Indian Peafowl (Domestic type) Ring-necked Pheasant Ruffed Grouse Wild Turkey Red-throated Loon Pacific Loon Common Loon Pied-billed Grebe Horned Grebe Red-necked Grebe Eared Grebe Western Grebe Neotropic Cormorant Double-crested Cormorant Magnificent Frigatebird Lesser Frigatebird Northern Gannet Anhinga American White Pelican Brown Pelican American Bittern Least Bittern Great Blue Heron Great Egret Snowy Egret Little Blue Heron
Ruddy Duck Northern Bobwhite Indian Peafowl (Domestic type) Ring-necked Pheasant Ruffed Grouse Wild Turkey Red-throated Loon Pacific Loon Common Loon Pied-billed Grebe Horned Grebe Red-necked Grebe Eared Grebe Western Grebe Neotropic Cormorant Double-crested Cormorant Magnificent Frigatebird Lesser Frigatebird Northern Gannet Anhinga American White Pelican Brown Pelican American Bittern Least Bittern Great Blue Heron Great Egret Snowy Egret
Northern Bobwhite Indian Peafowl (Domestic type) Ring-necked Pheasant Ruffed Grouse Wild Turkey Red-throated Loon Pacific Loon Common Loon Pied-billed Grebe Horned Grebe Red-necked Grebe Eared Grebe Western Grebe Neotropic Cormorant Double-crested Cormorant Magnificent Frigatebird Lesser Frigatebird Northern Gannet Anhinga American White Pelican Brown Pelican American Bittern Least Bittern Great Blue Heron Great Egret Snowy Egret
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Ruffed Grouse Wild Turkey Red-throated Loon Pacific Loon Common Loon Pied-billed Grebe Horned Grebe Red-necked Grebe Eared Grebe Western Grebe Neotropic Cormorant Double-crested Cormorant Magnificent Frigatebird Lesser Frigatebird Northern Gannet Anhinga American White Pelican Brown Pelican American Bittern Least Bittern Great Blue Heron Great Egret Snowy Egret
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Red-necked Grebe  Eared Grebe  Western Grebe  Neotropic Cormorant  Double-crested Cormorant  Magnificent Frigatebird  Lesser Frigatebird  Northern Gannet  Anhinga  American White Pelican  Brown Pelican  American Bittern  Least Bittern  Great Blue Heron  Great Egret  Snowy Egret
Eared Grebe  Western Grebe  Neotropic Cormorant  Double-crested Cormorant  Magnificent Frigatebird  Lesser Frigatebird  Northern Gannet  Anhinga  American White Pelican  Brown Pelican  American Bittern  Least Bittern  Great Blue Heron  Great Egret  Snowy Egret
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Double-crested Cormorant  Magnificent Frigatebird  Lesser Frigatebird  Northern Gannet  Anhinga  American White Pelican  Brown Pelican  American Bittern  Least Bittern  Great Blue Heron  Great Egret  Snowy Egret
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Great Blue Heron Great Egret Snowy Egret
Great Egret Snowy Egret
Snowy Egret
Little Blue Heron
Tricolored Heron
Cattle Egret
Green Heron
Black-crowned Night-Heron
Yellow-crowned Night-Heron
Glossy Ibis
White Ibis
White-faced Ibis
Black Vulture
Turkey Vulture

Osprey
Golden Eagle
Mississippi Kite
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Swainson's Hawk
Red-tailed Hawk
Rough-legged Hawk
Yellow Rail
King Rail
Virginia Rail
Sora
Common Gallinule
American Coot
Whooping Crane
Sandhill Crane
Black-necked Stilt
American Avocet
Black-bellied Plover
American Golden-Plover
Snowy Plover
Semipalmated Plover
Piping Plover
Killdeer
Upland Sandpiper
Whimbrel
Long-billed Curlew
Hudsonian Godwit
Marbled Godwit
Ruddy Turnstone
Red Knot
Ruff
Stilt Sandpiper
Curlew Sandpiper
Sanderling
Dunlin

Purple Sandpiper Baird's Sandpiper  Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs
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Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
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Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet
Solitary Sandpiper Greater Yellowlegs Willet
Greater Yellowlegs Willet
Willet
Lesser Yellowlegs
Pomarine Jaeger
Parasitic Jaeger
Long-tailed Jaeger
Ancient Murrelet
Black-legged Kittiwake
Sabine's Gull
Bonaparte's Gull
Black-headed Gull
Little Gull
Laughing Gull
Franklin's Gull
Heermann's Gull
Ring-billed Gull
California Gull
Herring Gull
Thayer's Gull
Iceland Gull
Lesser Black-backed Gull
Slaty-backed Gull
Glaucous Gull
SiddCod3 Gdii

Least Tern
Gull-billed Tern
Caspian Tern
Black Tern
Common Tern
Arctic Tern
Forster's Tern
Rock Pigeon
Mourning Dove
Yellow-billed Cuckoo
Black-billed Cuckoo
Barn Owl
Eastern Screech-Owl
Great Horned Owl
Snowy Owl
Barred Owl
Long-eared Owl
Short-eared Owl
Northern Saw-whet Owl
Common Nighthawk
Chuck-will's-widow
Eastern Whip-poor-will
Chimney Swift
Ruby-throated Hummingbird
Rufous Hummingbird
Belted Kingfisher
Red-headed Woodpecker
Red-bellied Woodpecker
Yellow-bellied Sapsucker
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
American Kestrel
Merlin
Gyrfalcon
Peregrine Falcon
Olive-sided Flycatcher
Eastern Wood-Pewee
Yellow-bellied Flycatcher
Acadian Flycatcher

Alder Flycatcher
Willow Flycatcher
Least Flycatcher
Eastern Phoebe
Great Crested Flycatcher
Eastern Kingbird
Scissor-tailed Flycatcher
Loggerhead Shrike
Northern Shrike
White-eyed Vireo
Bell's Vireo
Yellow-throated Vireo
Blue-headed Vireo
Philadelphia Vireo
Warbling Vireo
Red-eyed Vireo
Blue Jay
American Crow
Horned Lark
Northern Rough-winged Swallow
Purple Martin
Tree Swallow
Bank Swallow
Barn Swallow
Cliff Swallow
Cave Swallow
Black-capped Chickadee
Boreal Chickadee
Tufted Titmouse
Red-breasted Nuthatch
White-breasted Nuthatch
Brown Creeper
House Wren
Winter Wren
Sedge Wren
Marsh Wren
Carolina Wren
Blue-gray Gnatcatcher
Golden-crowned Kinglet
Ruby-crowned Kinglet
Eastern Bluebird

Mountain Bluebird
Townsend's Solitaire
Veery  Cray shocked Thrush
Gray-cheeked Thrush Swainson's Thrush
Hermit Thrush
Wood Thrush
American Robin
Varied Thrush
Gray Catbird
Brown Thrasher
Northern Mockingbird
European Starling
White Wagtail
American Pipit
Bohemian Waxwing
Cedar Waxwing
Lapland Longspur
Snow Bunting
Ovenbird
Worm-eating Warbler
Louisiana Waterthrush
Northern Waterthrush
Golden-winged Warbler
Blue-winged Warbler
Black-and-white Warbler
Prothonotary Warbler
Tennessee Warbler
Orange-crowned Warbler
Nashville Warbler
Virginia's Warbler
Connecticut Warbler
Mourning Warbler
Kentucky Warbler
Common Yellowthroat
Hooded Warbler
American Redstart
Kirtland's Warbler
Cape May Warbler
Cerulean Warbler
Northern Parula

Magnolia Warbler
-
Bay-breasted Warbler
Blackburnian Warbler
Yellow Warbler
Chestnut-sided Warbler
Blackpoll Warbler
Black-throated Blue Warbler
Palm Warbler
Pine Warbler
Yellow-rumped Warbler
Yellow-throated Warbler
Prairie Warbler
Black-throated Gray Warbler
Black-throated Green Warbler
Canada Warbler
Wilson's Warbler
Yellow-breasted Chat
Bachman's Sparrow
Grasshopper Sparrow
Henslow's Sparrow
Le Conte's Sparrow
Nelson's Sparrow
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Lark Sparrow
Fox Sparrow
Dark-eyed Junco
White-crowned Sparrow
Golden-crowned Sparrow
Harris's Sparrow
White-throated Sparrow
Vesper Sparrow
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
Green-tailed Towhee
Spotted Towhee
Eastern Towhee

Summer Tanager
Scarlet Tanager
Western Tanager
Northern Cardinal
Rose-breasted Grosbeak
Blue Grosbeak
Indigo Bunting
Painted Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Western Meadowlark
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird
Brewer's Blackbird
Common Grackle
Brown-headed Cowbird

Orchard Oriole
Bullock's Oriole
Baltimore Oriole
Gray-crowned Rosy-Finch
Pine Grosbeak
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Hoary Redpoll
Pine Siskin
American Goldfinch
European Goldfinch
Evening Grosbeak
House Sparrow

# Appendix E cont... - By County Species' Lists (eBird Observations)

Wayne County Species List
Black-bellied Whistling-Duck
Greater White-fronted Goose
Graylag Goose (Domestic type)
Snow Goose
Ross's Goose
Brant
Cackling Goose
Canada Goose
Mute Swan
Trumpeter Swan
Tundra Swan
Wood Duck
Gadwall
Eurasian Wigeon
American Wigeon
American Black Duck
Mallard
Blue-winged Teal
Northern Shoveler
Northern Pintail
Green-winged Teal
Canvasback
Redhead
Ring-necked Duck
Greater Scaup
Lesser Scaup
King Eider
Harlequin Duck
Surf Scoter
White-winged Scoter
Black Scoter
Long-tailed Duck
Bufflehead
Common Goldeneye
Hooded Merganser
Common Merganser
Red-breasted Merganser
Ruddy Duck

Northern Bobwhite
Ring-necked Pheasant
Wild Turkey
Common Loon
Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Eared Grebe
Lesser Frigatebird
Northern Gannet
Double-crested Cormorant
Anhinga
American White Pelican
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Snowy Egret
Little Blue Heron
Tricolored Heron
Cattle Egret
Green Heron
Black-crowned Night-Heron
Yellow-crowned Night-Heron
Glossy Ibis
White-faced Ibis
Black Vulture
Turkey Vulture
Osprey
Golden Eagle
Mississippi Kite
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Swainson's Hawk
Red-tailed Hawk

Rough-legged Hawk
Yellow Rail
King Rail
Virginia Rail
Sora
Common Gallinule
American Coot
Sandhill Crane
American Avocet
Black-bellied Plover
American Golden-Plover
Semipalmated Plover
Killdeer
Upland Sandpiper
Whimbrel
Long-billed Curlew
Hudsonian Godwit
Marbled Godwit
Ruddy Turnstone
Red Knot
Stilt Sandpiper
Sanderling
Dunlin
Purple Sandpiper
Baird's Sandpiper
Least Sandpiper
White-rumped Sandpiper
Buff-breasted Sandpiper
Pectoral Sandpiper
Semipalmated Sandpiper
Short-billed Dowitcher
Long-billed Dowitcher
Wilson's Snipe
American Woodcock
Wilson's Phalarope
Red-necked Phalarope
Spotted Sandpiper
Solitary Sandpiper
Greater Yellowlegs
Willet
Lesser Yellowlegs

Parasitic Jaeger Long-tailed Jaeger Ancient Murrelet Black-legged Kittiwake Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull Herring Gull Thayer's Gull Lesser Black-backed Gull Glaucous Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	
Long-tailed Jaeger Ancient Murrelet Black-legged Kittiwake Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Pomarine Jaeger
Ancient Murrelet Black-legged Kittiwake Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Red-headed Woodpecker Red-bellied Woodpecker	Parasitic Jaeger
Black-legged Kittiwake Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Red-headed Woodpecker Red-bellied Woodpecker	Long-tailed Jaeger
Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Ancient Murrelet
Little Gull Franklin's Gull Ring-billed Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Black-legged Kittiwake
Franklin's Gull Ring-billed Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Bonaparte's Gull
Ring-billed Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Little Gull
Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Back-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Franklin's Gull
Thayer's Gull Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Ring-billed Gull
Iceland Gull Lesser Black-backed Gull Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-bellied Woodpecker	Herring Gull
Lesser Black-backed Gull  Slaty-backed Gull  Great Black-backed Gull  Gull-billed Tern  Caspian Tern  Black Tern  Common Tern  Forster's Tern  Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Back-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird  Belted Kingfisher  Red-headed Woodpecker	Thayer's Gull
Slaty-backed Gull Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Iceland Gull
Glaucous Gull Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Lesser Black-backed Gull
Great Black-backed Gull Gull-billed Tern Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Slaty-backed Gull
Gull-billed Tern  Caspian Tern  Black Tern  Common Tern  Forster's Tern  Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird  Belted Kingfisher  Red-headed Woodpecker  Red-bellied Woodpecker	Glaucous Gull
Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Great Black-backed Gull
Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Gull-billed Tern
Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Caspian Tern
Forster's Tern  Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird  Belted Kingfisher  Red-headed Woodpecker	Black Tern
Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird  Belted Kingfisher  Red-headed Woodpecker  Red-bellied Woodpecker	Common Tern
Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Forster's Tern
Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Rock Pigeon
Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Mourning Dove
Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker	Yellow-billed Cuckoo
Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Black-billed Cuckoo
Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird  Belted Kingfisher  Red-headed Woodpecker  Red-bellied Woodpecker	Eastern Screech-Owl
Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Great Horned Owl
Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Snowy Owl
Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird  Belted Kingfisher  Red-headed Woodpecker  Red-bellied Woodpecker	Barred Owl
Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Long-eared Owl
Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Short-eared Owl
Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Northern Saw-whet Owl
Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Common Nighthawk
Ruby-throated Hummingbird Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Eastern Whip-poor-will
Rufous Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Chimney Swift
Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker	Ruby-throated Hummingbird
Red-headed Woodpecker Red-bellied Woodpecker	Rufous Hummingbird
Red-bellied Woodpecker	Belted Kingfisher
-	Red-headed Woodpecker
Vellow-hellied Sansucker	Red-bellied Woodpecker
renow beined Japadekei	Yellow-bellied Sapsucker

Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Barn Swallow Cliff Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse Red-breasted Nuthatch	
Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Barn Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Downy Woodpecker
Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Barn Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Hairy Woodpecker
American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Barn Swallow Cliff Swallow Clark Chickadee Boreal Chickadee Tufted Titmouse	Northern Flicker
Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Blue-headed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Pileated Woodpecker
Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Ueast Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Blue-headed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	American Kestrel
Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Merlin
Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Gyrfalcon
Eastern Wood-Pewee Yellow-bellied Flycatcher Acadian Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Peregrine Falcon
Yellow-bellied Flycatcher Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cave Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Olive-sided Flycatcher
Acadian Flycatcher Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Eastern Wood-Pewee
Alder Flycatcher Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Yellow-bellied Flycatcher
Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Acadian Flycatcher
Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Alder Flycatcher
Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Willow Flycatcher
Great Crested Flycatcher  Eastern Kingbird  Scissor-tailed Flycatcher  Northern Shrike  White-eyed Vireo  Bell's Vireo  Yellow-throated Vireo  Blue-headed Vireo  Philadelphia Vireo  Warbling Vireo  Red-eyed Vireo  Blue Jay  American Crow  Horned Lark  Northern Rough-winged Swallow  Purple Martin  Tree Swallow  Bank Swallow  Cliff Swallow  Cave Swallow  Black-capped Chickadee  Boreal Chickadee  Tufted Titmouse	Least Flycatcher
Eastern Kingbird Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Eastern Phoebe
Scissor-tailed Flycatcher Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Great Crested Flycatcher
Northern Shrike White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Eastern Kingbird
White-eyed Vireo Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Scissor-tailed Flycatcher
Bell's Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Northern Shrike
Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	White-eyed Vireo
Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Bell's Vireo
Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Yellow-throated Vireo
Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Blue-headed Vireo
Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Philadelphia Vireo
Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Warbling Vireo
American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Red-eyed Vireo
Horned Lark  Northern Rough-winged Swallow  Purple Martin  Tree Swallow  Bank Swallow  Cliff Swallow  Cave Swallow  Black-capped Chickadee  Boreal Chickadee  Tufted Titmouse	Blue Jay
Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	American Crow
Purple Martin Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Horned Lark
Tree Swallow Bank Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Northern Rough-winged Swallow
Bank Swallow Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Purple Martin
Barn Swallow Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Tree Swallow
Cliff Swallow Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Bank Swallow
Cave Swallow Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Barn Swallow
Black-capped Chickadee Boreal Chickadee Tufted Titmouse	Cliff Swallow
Boreal Chickadee Tufted Titmouse	Cave Swallow
Tufted Titmouse	Black-capped Chickadee
	Boreal Chickadee
Red-breasted Nuthatch	Tufted Titmouse
	Red-breasted Nuthatch

White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush
House Wren  Winter Wren  Sedge Wren  Marsh Wren  Carolina Wren  Blue-gray Gnatcatcher  Golden-crowned Kinglet  Ruby-crowned Kinglet  Eastern Bluebird  Veery  Gray-cheeked Thrush  Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird
Sedge Wren  Marsh Wren  Carolina Wren  Blue-gray Gnatcatcher  Golden-crowned Kinglet  Ruby-crowned Kinglet  Eastern Bluebird  Veery  Gray-cheeked Thrush  Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Sedge Wren  Marsh Wren  Carolina Wren  Blue-gray Gnatcatcher  Golden-crowned Kinglet  Ruby-crowned Kinglet  Eastern Bluebird  Veery  Gray-cheeked Thrush  Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Eastern Bluebird  Veery  Gray-cheeked Thrush  Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler
Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler
Snow Bunting Ovenbird Worm-eating Warbler
Ovenbird Worm-eating Warbler
Worm-eating Warbler
Louisiana Waterthrush
Louisiana watertinusn
Northern Waterthrush
Golden-winged Warbler
Blue-winged Warbler
Black-and-white Warbler
Prothonotary Warbler
Tennessee Warbler
Orange-crowned Warbler
Nashville Warbler
Virginia's Warbler
Connecticut Warbler
Mourning Warbler

Kentucky Warbler
Common Yellowthroat
Hooded Warbler
American Redstart
Kirtland's Warbler
Cape May Warbler
Cerulean Warbler
Northern Parula
Magnolia Warbler
Bay-breasted Warbler
Blackburnian Warbler
Yellow Warbler
Chestnut-sided Warbler
Blackpoll Warbler
Black-throated Blue Warbler
Palm Warbler
Pine Warbler
Yellow-rumped Warbler
Yellow-throated Warbler
Prairie Warbler
Black-throated Gray Warbler
Black-throated Green Warbler
Canada Warbler
Wilson's Warbler
Yellow-breasted Chat
Bachman's Sparrow
Grasshopper Sparrow
Henslow's Sparrow
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Lark Sparrow
Fox Sparrow
Dark-eyed Junco
White-crowned Sparrow
Golden-crowned Sparrow
Harris's Sparrow
White-throated Sparrow
Vesper Sparrow
Savannah Sparrow
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Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
Green-tailed Towhee
Eastern Towhee
Summer Tanager
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak
Blue Grosbeak
Indigo Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Western Meadowlark
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird
Brewer's Blackbird
Common Grackle
Brown-headed Cowbird
Orchard Oriole
Baltimore Oriole
Pine Grosbeak
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Hoary Redpoll
Pine Siskin
American Goldfinch
European Goldfinch
Evening Grosbeak
House Sparrow
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Macamb County Species List
Macomb County Species List
Greater White-fronted Goose
Snow Goose
Ross's Goose
Cackling Goose
Canada Goose
Mute Swan
Trumpeter Swan
Tundra Swan
Muscovy Duck (Domestic type)
Wood Duck
Gadwall
Eurasian Wigeon
American Wigeon
American Black Duck
Mallard
Blue-winged Teal
Cinnamon Teal
Northern Shoveler
Northern Pintail
Green-winged Teal
Canvasback
Redhead
Ring-necked Duck
Greater Scaup
Lesser Scaup
Surf Scoter
White-winged Scoter
Black Scoter
Long-tailed Duck
Bufflehead
Common Goldeneye
Hooded Merganser
Common Merganser
Red-breasted Merganser
Ruddy Duck
Northern Bobwhite
Ring-necked Pheasant
Ruffed Grouse
Wild Turkey
Red-throated Loon

Common Loon
Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Eared Grebe
Magnificent Frigatebird
Double-crested Cormorant
American White Pelican
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Snowy Egret
Little Blue Heron
Tricolored Heron
Cattle Egret
Green Heron
Black-crowned Night-Heron
Yellow-crowned Night-Heron
Black Vulture
Turkey Vulture
Osprey
Golden Eagle
Mississippi Kite
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Red-tailed Hawk
Rough-legged Hawk
Virginia Rail
Sora
Common Gallinule
American Coot
Sandhill Crane
Whooping Crane
American Avocet
Black-bellied Plover

American Golden-Plover Semipalmated Plover Piping Plover Killdeer Upland Sandpiper Whimbrel Marbled Godwit Ruddy Turnstone Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull Franklin's Gull	
Piping Plover Killdeer Upland Sandpiper Whimbrel Marbled Godwit Ruddy Turnstone Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper Uhite-rumped Sandpiper Buff-breasted Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Western Sandpiper Western Sandpiper Short-billed Dowitcher Ung-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	American Golden-Plover
Killdeer Upland Sandpiper Whimbrel Marbled Godwit Ruddy Turnstone Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Western Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Semipalmated Plover
Whimbrel Marbled Godwit Ruddy Turnstone Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Western Sandpiper Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Spotted Sandpiper Solitary Sandpiper Spotted Sandpiper Spotted Sandpiper Spotted Sandpiper Solitary Sandpiper Solitary Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Piping Plover
Marbled Godwit Ruddy Turnstone Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Killdeer
Marbled Godwit Ruddy Turnstone Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Solitary Sandpiper Solitary Sandpiper Solitary Sandpiper Solitary Sandpiper Soreater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Upland Sandpiper
Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Whimbrel
Red Knot Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Marbled Godwit
Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Ung-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Ruddy Turnstone
Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Red Knot
Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Stilt Sandpiper
Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Sanderling
Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Dunlin
Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Purple Sandpiper
White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Baird's Sandpiper
Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Least Sandpiper
Pectoral Sandpiper Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	White-rumped Sandpiper
Semipalmated Sandpiper Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Buff-breasted Sandpiper
Western Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Pectoral Sandpiper
Short-billed Dowitcher  Long-billed Dowitcher  Wilson's Snipe  American Woodcock  Wilson's Phalarope  Red-necked Phalarope  Red Phalarope  Spotted Sandpiper  Solitary Sandpiper  Greater Yellowlegs  Willet  Lesser Yellowlegs  Parasitic Jaeger  Sabine's Gull  Bonaparte's Gull  Little Gull  Laughing Gull	Semipalmated Sandpiper
Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Western Sandpiper
Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Short-billed Dowitcher
American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Long-billed Dowitcher
Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Wilson's Snipe
Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	American Woodcock
Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Wilson's Phalarope
Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Red-necked Phalarope
Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Red Phalarope
Greater Yellowlegs Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Spotted Sandpiper
Willet Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Solitary Sandpiper
Lesser Yellowlegs Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Greater Yellowlegs
Parasitic Jaeger Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Willet
Sabine's Gull Bonaparte's Gull Little Gull Laughing Gull	Lesser Yellowlegs
Bonaparte's Gull Little Gull Laughing Gull	Parasitic Jaeger
Little Gull Laughing Gull	Sabine's Gull
Laughing Gull	Bonaparte's Gull
	Little Gull
Franklin's Gull	Laughing Gull
	Franklin's Gull
Heermann's Gull	Heermann's Gull
Ring-billed Gull	Ring-billed Gull
California Gull	California Gull

Herring Gull Iceland Gull Lesser Black-backed Gull Glaucous Gull Great Black-backed Gull Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Iceland Gull Lesser Black-backed Gull Glaucous Gull Great Black-backed Gull Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Lesser Black-backed Gull Glaucous Gull Great Black-backed Gull Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Glaucous Gull Great Black-backed Gull Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Great Black-backed Gull Caspian Tern Black Tern Common Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Caspian Tern  Black Tern  Common Tern  Forster's Tern  Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird
Black Tern  Common Tern  Forster's Tern  Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird
Common Tern  Forster's Tern  Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird
Forster's Tern  Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird
Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird
Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Snowy Owl  Barred Owl  Long-eared Owl  Short-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Rufous Hummingbird
Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Chimney Swift Ruby-throated Hummingbird Rufous Hummingbird
Ruby-throated Hummingbird Rufous Hummingbird
Rufous Hummingbird
Belted Kingfisher
Red-headed Woodpecker
Red-bellied Woodpecker
Yellow-bellied Sapsucker
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
American Kestrel
Merlin
Gyrfalcon
Peregrine Falcon
Olive-sided Flycatcher
Eastern Wood-Pewee
Yellow-bellied Flycatcher

Acadian Flycatcher Alder Flycatcher Willow Flycatcher East Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Northern Shrike White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery Gray-cheeked Thrush	
Willow Flycatcher Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Northern Shrike White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Bank Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Acadian Flycatcher
Least Flycatcher Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Northern Shrike White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Alder Flycatcher
Eastern Phoebe Great Crested Flycatcher Eastern Kingbird Northern Shrike White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Bank Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Willow Flycatcher
Great Crested Flycatcher Eastern Kingbird Northern Shrike White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Bank Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Least Flycatcher
Eastern Kingbird Northern Shrike White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Eastern Phoebe
Northern Shrike White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Great Crested Flycatcher
White-eyed Vireo Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Eastern Kingbird
Yellow-throated Vireo Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Townsend's Solitaire Veery	Northern Shrike
Blue-headed Vireo Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Townsend's Solitaire Veery	White-eyed Vireo
Philadelphia Vireo Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Townsend's Solitaire Veery	Yellow-throated Vireo
Warbling Vireo Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Blue-headed Vireo
Red-eyed Vireo Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Townsend's Solitaire Veery	Philadelphia Vireo
Blue Jay American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Warbling Vireo
American Crow Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Red-eyed Vireo
Horned Lark Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Blue Jay
Northern Rough-winged Swallow Purple Martin Tree Swallow Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	American Crow
Purple Martin Tree Swallow Bank Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Horned Lark
Tree Swallow Bank Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Northern Rough-winged Swallow
Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Purple Martin
Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Tree Swallow
Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Bank Swallow
Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Barn Swallow
Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Cliff Swallow
Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Black-capped Chickadee
White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Tufted Titmouse
Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Red-breasted Nuthatch
House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	White-breasted Nuthatch
Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Brown Creeper
Sedge Wren  Marsh Wren  Carolina Wren  Blue-gray Gnatcatcher  Golden-crowned Kinglet  Ruby-crowned Kinglet  Eastern Bluebird  Mountain Bluebird  Townsend's Solitaire  Veery	House Wren
Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Winter Wren
Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Sedge Wren
Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Marsh Wren
Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Carolina Wren
Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Blue-gray Gnatcatcher
Ruby-crowned Kinglet Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Golden-crowned Kinglet
Eastern Bluebird  Mountain Bluebird  Townsend's Solitaire  Veery	
Townsend's Solitaire Veery	
Veery	Mountain Bluebird
	Townsend's Solitaire
Gray-cheeked Thrush	Veery
	Gray-cheeked Thrush

Swainson's Thrush
Hermit Thrush
Wood Thrush
American Robin
Varied Thrush
Gray Catbird
Brown Thrasher
Northern Mockingbird
European Starling
American Pipit
Bohemian Waxwing
Cedar Waxwing
Lapland Longspur
Snow Bunting
Ovenbird
Worm-eating Warbler
Louisiana Waterthrush
Northern Waterthrush
Golden-winged Warbler
Blue-winged Warbler
Black-and-white Warbler
Prothonotary Warbler
Tennessee Warbler
Orange-crowned Warbler
Nashville Warbler
Connecticut Warbler
Mourning Warbler
Kentucky Warbler
Common Yellowthroat
Hooded Warbler
American Redstart
Kirtland's Warbler
Cape May Warbler
Cerulean Warbler
Northern Parula
Magnolia Warbler
Bay-breasted Warbler
Blackburnian Warbler
Yellow Warbler
Chestnut-sided Warbler
Blackpoll Warbler

Black-throated Blue Warbler
Palm Warbler
Pine Warbler
Yellow-rumped Warbler
Yellow-throated Warbler
Prairie Warbler
Black-throated Green Warbler
Canada Warbler
Wilson's Warbler
Yellow-breasted Chat
Grasshopper Sparrow
Henslow's Sparrow
Nelson's Sparrow
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Lark Sparrow
Fox Sparrow
Dark-eyed Junco
White-crowned Sparrow
Harris's Sparrow
White-throated Sparrow
Vesper Sparrow
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
Eastern Towhee
Summer Tanager
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak
Blue Grosbeak
Indigo Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird

Brewer's Blackbird
Common Grackle
Brown-headed Cowbird
Orchard Oriole
Baltimore Oriole
Gray-crowned Rosy-Finch
Pine Grosbeak
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Hoary Redpoll
Pine Siskin
American Goldfinch
Evening Grosbeak
House Sparrow

Oakland County Species List	
Greater White-fronted Goose	
Snow Goose	
Ross's Goose	
Cackling Goose	
Canada Goose	
Mute Swan	
Trumpeter Swan	
Tundra Swan	
Muscovy Duck (Domestic type)	
Wood Duck	
Gadwall	
Eurasian Wigeon	
American Wigeon	
American Black Duck	
Mallard	
Blue-winged Teal	
Northern Shoveler	
Northern Pintail	
Green-winged Teal	
Canvasback	
Redhead	
Ring-necked Duck	
Greater Scaup	
Lesser Scaup	
Surf Scoter	
White-winged Scoter	
Black Scoter	
Long-tailed Duck	
Bufflehead	
Common Goldeneye	
Hooded Merganser	
Common Merganser	
Red-breasted Merganser	
Ruddy Duck	
Northern Bobwhite	
Indian Peafowl (Domestic type)	
Ring-necked Pheasant	
Ruffed Grouse	
Wild Turkey	
Common Loon	

Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Eared Grebe
Double-crested Cormorant
American White Pelican
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Snowy Egret
Little Blue Heron
Green Heron
Black-crowned Night-Heron
Yellow-crowned Night-Heron
Black Vulture
Turkey Vulture
Osprey
Golden Eagle
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Red-tailed Hawk
Rough-legged Hawk
Virginia Rail
Sora
Common Gallinule
American Coot
Sandhill Crane
American Avocet
Black-bellied Plover
American Golden-Plover
Semipalmated Plover
Killdeer
Upland Sandpiper
Whimbrel
Ruddy Turnstone

Stilt Sandpiper
Sanderling
Dunlin
Baird's Sandpiper
Least Sandpiper
White-rumped Sandpiper
Buff-breasted Sandpiper
Pectoral Sandpiper
Semipalmated Sandpiper
Short-billed Dowitcher
Long-billed Dowitcher
Wilson's Snipe
American Woodcock
Red-necked Phalarope
Spotted Sandpiper
Solitary Sandpiper
Greater Yellowlegs
Lesser Yellowlegs
Bonaparte's Gull
Franklin's Gull
Ring-billed Gull
Herring Gull
Thayer's Gull
Iceland Gull
Lesser Black-backed Gull
Glaucous Gull
Great Black-backed Gull
Caspian Tern
Black Tern
Common Tern
Forster's Tern
Rock Pigeon
Mourning Dove
Yellow-billed Cuckoo
Black-billed Cuckoo
Eastern Screech-Owl
Great Horned Owl
Snowy Owl
Barred Owl
Long-eared Owl
Short-eared Owl

Northern Saw-whet Owl
Common Nighthawk
Chuck-will's-widow
Eastern Whip-poor-will
Chimney Swift
Ruby-throated Hummingbird
Rufous Hummingbird
Belted Kingfisher
Red-headed Woodpecker
Red-bellied Woodpecker
Yellow-bellied Sapsucker
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
American Kestrel
Merlin
Peregrine Falcon
Olive-sided Flycatcher
Eastern Wood-Pewee
Yellow-bellied Flycatcher
Acadian Flycatcher
Alder Flycatcher
Willow Flycatcher
Least Flycatcher
Eastern Phoebe
Great Crested Flycatcher
Eastern Kingbird
Northern Shrike
White-eyed Vireo
Bell's Vireo
Yellow-throated Vireo
Blue-headed Vireo
Philadelphia Vireo
Warbling Vireo
Red-eyed Vireo
Blue Jay
American Crow
Horned Lark
Northern Rough-winged
Swallow
Purple Martin

Bank Swallow Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush	
Barn Swallow Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Tree Swallow
Cliff Swallow Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Bank Swallow
Black-capped Chickadee Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Barn Swallow
Tufted Titmouse Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Cliff Swallow
Red-breasted Nuthatch White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Black-capped Chickadee
White-breasted Nuthatch Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Tufted Titmouse
Brown Creeper House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Red-breasted Nuthatch
House Wren Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	White-breasted Nuthatch
Winter Wren Sedge Wren Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Brown Creeper
Sedge Wren  Marsh Wren  Carolina Wren  Blue-gray Gnatcatcher  Golden-crowned Kinglet  Ruby-crowned Kinglet  Eastern Bluebird  Veery  Gray-cheeked Thrush  Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler  Louisiana Waterthrush	House Wren
Marsh Wren Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Winter Wren
Carolina Wren Blue-gray Gnatcatcher Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Sedge Wren
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Golden-crowned Kinglet Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Carolina Wren
Ruby-crowned Kinglet Eastern Bluebird Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Blue-gray Gnatcatcher
Eastern Bluebird  Veery  Gray-cheeked Thrush  Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler  Louisiana Waterthrush	Golden-crowned Kinglet
Veery Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Ruby-crowned Kinglet
Gray-cheeked Thrush Swainson's Thrush Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Eastern Bluebird
Swainson's Thrush  Hermit Thrush  Wood Thrush  American Robin  Varied Thrush  Gray Catbird  Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler  Louisiana Waterthrush	Veery
Hermit Thrush Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Gray-cheeked Thrush
Wood Thrush American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Swainson's Thrush
American Robin Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Hermit Thrush
Varied Thrush Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Wood Thrush
Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	American Robin
Brown Thrasher  Northern Mockingbird  European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler  Louisiana Waterthrush	Varied Thrush
Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Gray Catbird
European Starling  American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler  Louisiana Waterthrush	Brown Thrasher
American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler  Louisiana Waterthrush	Northern Mockingbird
American Pipit  Bohemian Waxwing  Cedar Waxwing  Lapland Longspur  Snow Bunting  Ovenbird  Worm-eating Warbler  Louisiana Waterthrush	-
Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	
Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Bohemian Waxwing
Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	Cedar Waxwing
Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush	
Ovenbird Worm-eating Warbler Louisiana Waterthrush	
Worm-eating Warbler Louisiana Waterthrush	
Louisiana Waterthrush	
Golden-winged Warbler	
Blue-winged Warbler	
Black-and-white Warbler	

Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Pine Warbler Pine Warbler Palm Warbler Yellow-rumped Warbler Palm Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Droth on otony Worklor
Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Chada Warbler Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Clay-colored Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow White-throated Sparrow White-throated Sparrow Vesper Sparrow	Prothonotary Warbler
Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Palm Warbler Pine Warbler Prairie Warbler Black-throated Green Warbler Prairie Warbler Wilson's Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow Chipping Sparrow Clay-colored Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow White-throated Sparrow Vesper Sparrow	
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Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Pine Warbler Prairie Warbler Black-throated Green Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Vellow-rumped Warbler Frairie Warbler Canada Warbler Wilson's Warbler Vellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Chipping Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow	
Common Yellowthroat Hooded Warbler American Redstart Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow Vesper Sparrow	
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American Redstart Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow Vesper Sparrow	Common Yellowthroat
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Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Prairie Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow Vesper Sparrow	American Redstart
Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow	Cape May Warbler
Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow Vesper Sparrow	Cerulean Warbler
Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow	Northern Parula
Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Magnolia Warbler
Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow	Bay-breasted Warbler
Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Blackburnian Warbler
Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow	Yellow Warbler
Black-throated Blue Warbler Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Chestnut-sided Warbler
Palm Warbler Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow Chipping Sparrow Chipping Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Blackpoll Warbler
Pine Warbler Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow Chipping Sparrow Clay-colored Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow White-throated Sparrow Vesper Sparrow	Black-throated Blue Warbler
Yellow-rumped Warbler Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow Chipping Sparrow Chipping Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Palm Warbler
Prairie Warbler Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Pine Warbler
Black-throated Green Warbler Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Yellow-rumped Warbler
Canada Warbler Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Prairie Warbler
Wilson's Warbler Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Black-throated Green Warbler
Yellow-breasted Chat Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Canada Warbler
Grasshopper Sparrow Henslow's Sparrow American Tree Sparrow Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Wilson's Warbler
Henslow's Sparrow  American Tree Sparrow  Chipping Sparrow  Clay-colored Sparrow  Field Sparrow  Fox Sparrow  Dark-eyed Junco  White-crowned Sparrow  Harris's Sparrow  White-throated Sparrow  Vesper Sparrow	Yellow-breasted Chat
Henslow's Sparrow  American Tree Sparrow  Chipping Sparrow  Clay-colored Sparrow  Field Sparrow  Fox Sparrow  Dark-eyed Junco  White-crowned Sparrow  Harris's Sparrow  White-throated Sparrow  Vesper Sparrow	Grasshopper Sparrow
Chipping Sparrow Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Henslow's Sparrow
Clay-colored Sparrow Field Sparrow Fox Sparrow Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	American Tree Sparrow
Field Sparrow  Fox Sparrow  Dark-eyed Junco  White-crowned Sparrow  Harris's Sparrow  White-throated Sparrow  Vesper Sparrow	Chipping Sparrow
Fox Sparrow  Dark-eyed Junco  White-crowned Sparrow  Harris's Sparrow  White-throated Sparrow  Vesper Sparrow	Clay-colored Sparrow
Dark-eyed Junco White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Field Sparrow
White-crowned Sparrow Harris's Sparrow White-throated Sparrow Vesper Sparrow	Fox Sparrow
Harris's Sparrow White-throated Sparrow Vesper Sparrow	Dark-eyed Junco
White-throated Sparrow Vesper Sparrow	White-crowned Sparrow
White-throated Sparrow Vesper Sparrow	
Vesper Sparrow	
Savannah Snarrow	
Savarinari Spariow	Savannah Sparrow

Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
Green-tailed Towhee
Eastern Towhee
Summer Tanager
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak
Blue Grosbeak
Indigo Bunting
Painted Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird
Brewer's Blackbird
Common Grackle
Brown-headed Cowbird
Orchard Oriole
Baltimore Oriole
Pine Grosbeak
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Hoary Redpoll
Pine Siskin
American Goldfinch
Evening Grosbeak
House Sparrow

Greater White-fronted Goose Graylag Goose (Domestic type)
Graylag Goose (Domestic type)
Charle Coosa
Snow Goose
Ross's Goose
Cackling Goose
Canada Goose
Mute Swan
Trumpeter Swan
Tundra Swan
Wood Duck
Gadwall
American Wigeon
American Black Duck
Mallard
Mallard (Domestic type)
Blue-winged Teal
Northern Shoveler
Northern Pintail
Green-winged Teal
Canvasback
Redhead
Ring-necked Duck
Greater Scaup
Lesser Scaup
Surf Scoter
White-winged Scoter
Black Scoter
Long-tailed Duck
Bufflehead
Common Goldeneye
Hooded Merganser
Common Merganser
Red-breasted Merganser
Ruddy Duck
Northern Bobwhite
Ring-necked Pheasant
Ruffed Grouse
Wild Turkey
Red-throated Loon
Pacific Loon

Common Loon
Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Eared Grebe
Double-crested Cormorant
American White Pelican
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Little Blue Heron
Cattle Egret
Green Heron
Black-crowned Night-Heron
Turkey Vulture
Osprey
Golden Eagle
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Red-tailed Hawk
Rough-legged Hawk
Virginia Rail
Sora
Common Gallinule
American Coot
Sandhill Crane
Black-bellied Plover
American Golden-Plover
Semipalmated Plover
Killdeer
Marbled Godwit
Stilt Sandpiper
Sanderling
Dunlin
Baird's Sandpiper

Least Sandpiper
White-rumped Sandpiper
Buff-breasted Sandpiper
Pectoral Sandpiper
Semipalmated Sandpiper
Short-billed Dowitcher
Long-billed Dowitcher
Wilson's Snipe
American Woodcock
Wilson's Phalarope
Red-necked Phalarope
Spotted Sandpiper
Solitary Sandpiper Greater Yellowlegs
Lesser Yellowlegs
Bonaparte's Gull
Franklin's Gull
Ring-billed Gull
Herring Gull
Thayer's Gull
Iceland Gull
Lesser Black-backed Gull
Glaucous Gull
Great Black-backed Gull
Caspian Tern Black Tern
Common Tern
Forster's Tern
Rock Pigeon
Mourning Dove
Yellow-billed Cuckoo
Black-billed Cuckoo
Eastern Screech-Owl
Great Horned Owl
Snowy Owl
Barred Owl
Long-eared Owl
Short-eared Owl
Northern Saw-whet Owl
Common Nighthawk
Chuck-will's-widow

Eastern Whip-poor-will
Chimney Swift
Ruby-throated Hummingbird
Rufous Hummingbird
White-eared Hummingbird
Belted Kingfisher
Red-headed Woodpecker
Red-bellied Woodpecker
Yellow-bellied Sapsucker
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
American Kestrel
Merlin
Peregrine Falcon
Olive-sided Flycatcher
Eastern Wood-Pewee
Yellow-bellied Flycatcher
Acadian Flycatcher
Alder Flycatcher
Willow Flycatcher
Least Flycatcher
Eastern Phoebe
Great Crested Flycatcher
Eastern Kingbird
Northern Shrike
White-eyed Vireo
Yellow-throated Vireo
Blue-headed Vireo
Philadelphia Vireo
Warbling Vireo
Red-eyed Vireo
Blue Jay
American Crow
Horned Lark
Northern Rough-winged Swallow
Purple Martin
Tree Swallow
Bank Swallow
Barn Swallow

Cliff Swallow
Black-capped Chickadee
Tufted Titmouse
Red-breasted Nuthatch
White-breasted Nuthatch
Brown Creeper
House Wren
Winter Wren
Sedge Wren
Marsh Wren
Carolina Wren
Blue-gray Gnatcatcher
Golden-crowned Kinglet
Ruby-crowned Kinglet
Eastern Bluebird
Townsend's Solitaire
Veery
Gray-cheeked Thrush
Swainson's Thrush
Hermit Thrush
Wood Thrush
American Robin
Gray Catbird
Brown Thrasher
Northern Mockingbird
European Starling
American Pipit
Bohemian Waxwing
Cedar Waxwing
Lapland Longspur
Snow Bunting
Ovenbird
Worm-eating Warbler
Louisiana Waterthrush
Northern Waterthrush
Golden-winged Warbler
Blue-winged Warbler
Black-and-white Warbler
Prothonotary Warbler
Tennessee Warbler
Orange-crowned Warbler

Nashville Warbler
Connecticut Warbler
Mourning Warbler
Common Yellowthroat
Hooded Warbler
American Redstart
Cape May Warbler
Cerulean Warbler
Northern Parula
Magnolia Warbler
Bay-breasted Warbler
Blackburnian Warbler
Yellow Warbler
Chestnut-sided Warbler
Blackpoll Warbler
Black-throated Blue Warbler
Palm Warbler
Pine Warbler
Yellow-rumped Warbler
Prairie Warbler
Black-throated Green Warbler
Canada Warbler
Wilson's Warbler
Yellow-breasted Chat
Grasshopper Sparrow
Henslow's Sparrow
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Lark Sparrow
Fox Sparrow
Dark-eyed Junco
White-crowned Sparrow
Harris's Sparrow
White-throated Sparrow
Vesper Sparrow
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow

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Spotted Towhee
Eastern Towhee
Summer Tanager
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak
Indigo Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Western Meadowlark
Eastern Meadowlark
Rusty Blackbird
Brewer's Blackbird
Common Grackle
Brown-headed Cowbird
Orchard Oriole
Bullock's Oriole
Baltimore Oriole
Pine Grosbeak
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Hoary Redpoll
Pine Siskin
American Goldfinch
European Goldfinch
Evening Grosbeak
House Sparrow

Washtenaw County Species List
Greater White-fronted Goose
Graylag Goose (Domestic type)
Snow Goose
Ross's Goose
Cackling Goose
Canada Goose
Mute Swan
Trumpeter Swan
Tundra Swan
Wood Duck
Gadwall
Eurasian Wigeon
American Wigeon
American Black Duck
Mallard
Mallard (Domestic type)
Blue-winged Teal
Northern Shoveler
Northern Pintail
Green-winged Teal
Canvasback
Redhead
Ring-necked Duck
Greater Scaup
Lesser Scaup
Surf Scoter
White-winged Scoter
Black Scoter
Long-tailed Duck
Bufflehead
Common Goldeneye
Hooded Merganser
Common Merganser
Red-breasted Merganser
Ruddy Duck
Northern Bobwhite
Ring-necked Pheasant
Ruffed Grouse
Wild Turkey
Red-throated Loon

Pacific Loon
Common Loon
Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Double-crested Cormorant
Anhinga
American White Pelican
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Snowy Egret
Little Blue Heron
Cattle Egret
Green Heron
Black-crowned Night-Heron
White-faced Ibis
Black Vulture
Turkey Vulture
Osprey
Golden Eagle
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Red-tailed Hawk
Rough-legged Hawk
Virginia Rail
Sora
Common Gallinule
American Coot
Sandhill Crane
Black-necked Stilt
American Avocet
Black-bellied Plover
American Golden-Plover
Semipalmated Plover

Killdeer	Caspian Tern
Upland Sandpiper	Black Tern
Whimbrel	Common Tern
Hudsonian Godwit	Forster's Tern
Marbled Godwit	Rock Pigeon
Ruddy Turnstone	Mourning Dove
Ruff	Yellow-billed Cuckoo
Stilt Sandpiper	Black-billed Cuckoo
Sanderling	Barn Owl
Dunlin	Eastern Screech-Owl
Baird's Sandpiper	Great Horned Owl
Least Sandpiper	Snowy Owl
White-rumped Sandpiper	Barred Owl
Buff-breasted Sandpiper	Long-eared Owl
Pectoral Sandpiper	Short-eared Owl
Semipalmated Sandpiper	Long-eared/Short-eared Owl
Western Sandpiper	Northern Saw-whet Owl
Short-billed Dowitcher	Common Nighthawk
Long-billed Dowitcher	Eastern Whip-poor-will
Wilson's Snipe	Chimney Swift
American Woodcock	Ruby-throated Hummingbird
Wilson's Phalarope	Rufous Hummingbird
Red-necked Phalarope	Belted Kingfisher
Red Phalarope	Red-headed Woodpecker
Spotted Sandpiper	Red-bellied Woodpecker
Solitary Sandpiper	Yellow-bellied Sapsucker
Greater Yellowlegs	Downy Woodpecker
Willet	Hairy Woodpecker
Lesser Yellowlegs	Northern Flicker
Sabine's Gull	Pileated Woodpecker
Bonaparte's Gull	American Kestrel
Laughing Gull	Merlin
Franklin's Gull	Peregrine Falcon
Ring-billed Gull	Olive-sided Flycatcher
Herring Gull	Eastern Wood-Pewee
Thayer's Gull	Yellow-bellied Flycatcher
Iceland Gull	Acadian Flycatcher
Lesser Black-backed Gull	Alder Flycatcher
Slaty-backed Gull	Willow Flycatcher
Glaucous Gull	Least Flycatcher
Great Black-backed Gull	Eastern Phoebe

Great Crested Flycatcher	
Western Kingbird	
Eastern Kingbird	
Loggerhead Shrike	
Northern Shrike	
White-eyed Vireo	
Yellow-throated Vireo	
Blue-headed Vireo	
Philadelphia Vireo	
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Warbling Vireo Red-eyed Vireo	
Blue Jay	
American Crow	
Horned Lark	
Northern Rough-winged Swallow	
Purple Martin	
Tree Swallow Bank Swallow	
Barn Swallow	
Cliff Swallow	
Black-capped Chickadee  Boreal Chickadee	
Tufted Titmouse	
Red-breasted Nuthatch	
White-breasted Nuthatch	
Brown Creeper	
House Wren	
Winter Wren	
Sedge Wren	
Marsh Wren	
Carolina Wren	
Blue-gray Gnatcatcher	
Golden-crowned Kinglet	
Ruby-crowned Kinglet	
Eastern Bluebird	
Veery	
Gray-cheeked Thrush	
Swainson's Thrush	
Hermit Thrush	
Wood Thrush	
American Robin	

Gray Catbird Brown Thrasher Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Blue-winged Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Blackburnian Warbler Blackburnian Warbler Blackburnian Warbler Blackchroated Blue Warbler Black-throated Blue Warbler Palm Warbler Palm Warbler Pine Warbler	Varied Thrush
Northern Mockingbird European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Blue-winged Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Bay-breasted Warbler Blackburnian Warbler Blackburnian Warbler Serulean Warbler Blackburnian Warbler Blackburnian Warbler Blackpoll Warbler Blackc-throated Blue Warbler Palm Warbler	Gray Catbird
European Starling American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Blue-winged Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Bay-breasted Warbler Blackburnian Warbler Seay-breasted Warbler Blackburnian Warbler Selackburnian Warbler Pellow Warbler Blackpoll Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler	Brown Thrasher
American Pipit Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cerulean Warbler Northern Parula Magnolia Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Blackpoll Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler	Northern Mockingbird
Bohemian Waxwing Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler	European Starling
Cedar Waxwing Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler	American Pipit
Lapland Longspur Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cerulean Warbler Cerulean Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler	Bohemian Waxwing
Snow Bunting Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Blue-winged Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Palm Warbler	Cedar Waxwing
Ovenbird Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Palm Warbler	Lapland Longspur
Worm-eating Warbler Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler	Snow Bunting
Louisiana Waterthrush Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler	Ovenbird
Northern Waterthrush Golden-winged Warbler Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler	Worm-eating Warbler
Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Louisiana Waterthrush
Blue-winged Warbler Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler	Northern Waterthrush
Black-and-white Warbler Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Say-breasted Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Golden-winged Warbler
Prothonotary Warbler Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Blue-winged Warbler
Tennessee Warbler Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Black-and-white Warbler
Orange-crowned Warbler Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Prothonotary Warbler
Nashville Warbler Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Tennessee Warbler
Connecticut Warbler Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Orange-crowned Warbler
Mourning Warbler Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Nashville Warbler
Kentucky Warbler Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Connecticut Warbler
Common Yellowthroat Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Mourning Warbler
Hooded Warbler American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Kentucky Warbler
American Redstart Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Common Yellowthroat
Kirtland's Warbler Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Hooded Warbler
Cape May Warbler Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	American Redstart
Cerulean Warbler Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Kirtland's Warbler
Northern Parula Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Cape May Warbler
Magnolia Warbler Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Cerulean Warbler
Bay-breasted Warbler Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Northern Parula
Blackburnian Warbler Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Magnolia Warbler
Yellow Warbler Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Bay-breasted Warbler
Chestnut-sided Warbler Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Blackburnian Warbler
Blackpoll Warbler Black-throated Blue Warbler Palm Warbler Pine Warbler	Yellow Warbler
Black-throated Blue Warbler Palm Warbler Pine Warbler	Chestnut-sided Warbler
Palm Warbler Pine Warbler	Blackpoll Warbler
Pine Warbler	Black-throated Blue Warbler
	Palm Warbler
Yellow-rumped Warbler	Pine Warbler
	Yellow-rumped Warbler

Yellow-throated Warbler
Prairie Warbler
Black-throated Gray Warbler
Black-throated Green Warbler
Canada Warbler
Wilson's Warbler
Yellow-breasted Chat
Grasshopper Sparrow
Henslow's Sparrow
Nelson's Sparrow
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Lark Sparrow
Fox Sparrow
Dark-eyed Junco
White-crowned Sparrow
White-throated Sparrow
Vesper Sparrow
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
Eastern Towhee
Summer Tanager
Scarlet Tanager
Western Tanager
Northern Cardinal
Rose-breasted Grosbeak
Blue Grosbeak
Indigo Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Western Meadowlark
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird
Brewer's Blackbird
Common Grackle

Brown-headed Cowbird
Orchard Oriole
Baltimore Oriole
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Hoary Redpoll
Pine Siskin
American Goldfinch
Evening Grosbeak
House Sparrow

Monroe County Species List
Greater White-fronted Goose
Snow Goose
Ross's Goose
Brant
Cackling Goose
Canada Goose
Mute Swan
Trumpeter Swan
Tundra Swan
Wood Duck
Gadwall
Eurasian Wigeon
American Wigeon
American Black Duck
Mallard
Mallard (Domestic type)
Blue-winged Teal
Cinnamon Teal
Northern Shoveler
Northern Pintail
Green-winged Teal
Canvasback
Redhead
Ring-necked Duck
Greater Scaup
Lesser Scaup
King Eider
Common Eider
Harlequin Duck
Surf Scoter
White-winged Scoter
Black Scoter
Long-tailed Duck
Bufflehead
Common Goldeneye
Barrow's Goldeneye
Hooded Merganser
Common Merganser
Red-breasted Merganser
Ruddy Duck

Northern Bobwhite
Ring-necked Pheasant
Wild Turkey
Red-throated Loon
Pacific Loon
Common Loon
Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Eared Grebe
Northern Gannet
Double-crested Cormorant
American White Pelican
Brown Pelican
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Snowy Egret
Little Blue Heron
Tricolored Heron
Cattle Egret
Green Heron
Black-crowned Night-Heron
Yellow-crowned Night-Heron
White Ibis
Glossy Ibis
White-faced Ibis
Black Vulture
Turkey Vulture
Osprey
Golden Eagle
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Swainson's Hawk
Red-tailed Hawk

Rough logged House
Rough-legged Hawk Yellow Rail
King Rail
Virginia Rail
Sora Callianta
Common Gallinule
American Coot
Sandhill Crane
Black-necked Stilt
American Avocet
Black-bellied Plover
American Golden-Plover
Snowy Plover
Semipalmated Plover
Piping Plover
Killdeer
Upland Sandpiper
Whimbrel
Hudsonian Godwit
Marbled Godwit
Ruddy Turnstone
Red Knot
Ruff
Stilt Sandpiper
Curlew Sandpiper
Sanderling
Dunlin
Purple Sandpiper
Baird's Sandpiper
Least Sandpiper
White-rumped Sandpiper
Buff-breasted Sandpiper
Pectoral Sandpiper
Semipalmated Sandpiper
Western Sandpiper
Short-billed Dowitcher
Long-billed Dowitcher
Wilson's Snipe
American Woodcock
Wilson's Phalarope
Red-necked Phalarope
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Red Phalarope
Spotted Sandpiper
Solitary Sandpiper
Greater Yellowlegs
Willet
Lesser Yellowlegs
Parasitic Jaeger
Black-legged Kittiwake
Bonaparte's Gull
Black-headed Gull
Little Gull
Laughing Gull
Franklin's Gull
Ring-billed Gull
Herring Gull
Thayer's Gull
Iceland Gull
Lesser Black-backed Gull
Glaucous Gull
Great Black-backed Gull
Least Tern
Gull-billed Tern
Caspian Tern
Black Tern
Common Tern
Arctic Tern
Forster's Tern
Rock Pigeon
Mourning Dove
Yellow-billed Cuckoo
Black-billed Cuckoo
Barn Owl
Eastern Screech-Owl
Great Horned Owl
Snowy Owl
Barred Owl
Long-eared Owl
Short-eared Owl
Northern Saw-whet Owl
Common Nighthawk
Eastern Whip-poor-will

Chimney Swift
Ruby-throated Hummingbird
Belted Kingfisher
Red-headed Woodpecker
Red-bellied Woodpecker
Yellow-bellied Sapsucker
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
American Kestrel
Merlin
Gyrfalcon
Peregrine Falcon
Olive-sided Flycatcher
Eastern Wood-Pewee
Yellow-bellied Flycatcher
Acadian Flycatcher
Alder Flycatcher
Willow Flycatcher
Least Flycatcher
Eastern Phoebe
Great Crested Flycatcher
Western Kingbird
Eastern Kingbird
Loggerhead Shrike
Northern Shrike
White-eyed Vireo
Yellow-throated Vireo
Blue-headed Vireo
Philadelphia Vireo
Warbling Vireo
Red-eyed Vireo
Blue Jay
American Crow
Horned Lark
Northern Rough-winged Swallow
Purple Martin
Tree Swallow
Bank Swallow
Barn Swallow

Cliff Swallow
Cave Swallow
Black-capped Chickadee
Tufted Titmouse
Red-breasted Nuthatch
White-breasted Nuthatch
Brown Creeper
House Wren
Winter Wren
Sedge Wren
Marsh Wren
Carolina Wren
Blue-gray Gnatcatcher
Golden-crowned Kinglet
Ruby-crowned Kinglet
Eastern Bluebird
Mountain Bluebird
Veery
Gray-cheeked Thrush
Swainson's Thrush
Hermit Thrush
Wood Thrush
American Robin
Varied Thrush
Gray Catbird
Brown Thrasher
Northern Mockingbird
European Starling
White Wagtail
American Pipit
Cedar Waxwing
Lapland Longspur
Snow Bunting
Ovenbird
Worm-eating Warbler
Louisiana Waterthrush
Northern Waterthrush
Golden-winged Warbler
Blue-winged Warbler
Black-and-white Warbler
Prothonotary Warbler

Tennessee Warbler
Orange-crowned Warbler
Nashville Warbler
Connecticut Warbler
Mourning Warbler
Kentucky Warbler
Common Yellowthroat
Hooded Warbler
American Redstart
Cape May Warbler
Cerulean Warbler
Northern Parula
Magnolia Warbler
Bay-breasted Warbler
Blackburnian Warbler
Yellow Warbler
Chestnut-sided Warbler
Blackpoll Warbler
Black-throated Blue Warbler
Palm Warbler
Pine Warbler
Yellow-rumped Warbler
Yellow-throated Warbler
Prairie Warbler
Black-throated Green Warbler
Canada Warbler
Wilson's Warbler
Yellow-breasted Chat
Bachman's Sparrow
Grasshopper Sparrow
Henslow's Sparrow
Le Conte's Sparrow
Nelson's Sparrow
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Lark Sparrow
Fox Sparrow
Dark-eyed Junco
White-crowned Sparrow

White-throated Sparrow
Vesper Sparrow
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
Eastern Towhee
Summer Tanager
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak
Blue Grosbeak
Indigo Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Western Meadowlark
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird
Brewer's Blackbird
Common Grackle
Brown-headed Cowbird
Orchard Oriole
Baltimore Oriole
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Pine Siskin
American Goldfinch
House Sparrow

St. Clair County Species List
Greater White-fronted Goose
Snow Goose
Ross's Goose
Brant
Cackling Goose
Canada Goose
Mute Swan
Trumpeter Swan
Tundra Swan
Wood Duck
Gadwall
Eurasian Wigeon
American Wigeon
American Black Duck
Mallard
Mallard (Domestic type)
Blue-winged Teal
Northern Shoveler
Northern Pintail
Green-winged Teal
Canvasback
Redhead
Ring-necked Duck
Tufted Duck
Greater Scaup
Lesser Scaup
King Eider
Harlequin Duck
Surf Scoter
White-winged Scoter
Black Scoter
Long-tailed Duck
Bufflehead
Common Goldeneye
Barrow's Goldeneye
Hooded Merganser
Common Merganser
Red-breasted Merganser
Ruddy Duck
Northern Bobwhite

Ring-necked Pheasant
Ruffed Grouse
Wild Turkey
Red-throated Loon
Common Loon
Pied-billed Grebe
Horned Grebe
Red-necked Grebe
Eared Grebe
Western Grebe
Neotropic Cormorant
Double-crested Cormorant
American White Pelican
American Bittern
Least Bittern
Great Blue Heron
Great Egret
Snowy Egret
Cattle Egret
Green Heron
Black-crowned Night-Heron
White Ibis
Turkey Vulture
Osprey
Golden Eagle
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Bald Eagle
Red-shouldered Hawk
Broad-winged Hawk
Red-tailed Hawk
Rough-legged Hawk
King Rail
Virginia Rail
Sora
Common Gallinule
American Coot
Sandhill Crane
American Avocet

American Golden-Plover Semipalmated Plover Killdeer Upland Sandpiper Ruddy Turnstone Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Black-legged Kittiwake Sabine's Gull Eranklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Diagle halliad Diagram
Semipalmated Plover Killdeer Upland Sandpiper Ruddy Turnstone Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper Least Sandpiper White-rumped Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Black-bellied Plover
Killdeer Upland Sandpiper Ruddy Turnstone Stilt Sandpiper Sanderling Dunlin Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	
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Purple Sandpiper Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Sanderling
Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Iteland Gull Lesser Black-backed Gull	Dunlin
Least Sandpiper White-rumped Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Liceland Gull Lesser Black-backed Gull	Purple Sandpiper
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Pectoral Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Least Sandpiper
Semipalmated Sandpiper Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Italeand Gull Lesser Black-backed Gull	White-rumped Sandpiper
Short-billed Dowitcher Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Liceland Gull Lesser Black-backed Gull	Pectoral Sandpiper
Long-billed Dowitcher Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Iteland Gull Lesser Black-backed Gull	Semipalmated Sandpiper
Wilson's Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Short-billed Dowitcher
American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Italeand Gull Lesser Black-backed Gull	Long-billed Dowitcher
Wilson's Phalarope Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Iteland Gull Lesser Black-backed Gull	Wilson's Snipe
Red-necked Phalarope Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	American Woodcock
Red Phalarope Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Itayer's Gull Liceland Gull Lesser Black-backed Gull	Wilson's Phalarope
Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Red-necked Phalarope
Solitary Sandpiper Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Red Phalarope
Greater Yellowlegs Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Spotted Sandpiper
Willet Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Solitary Sandpiper
Lesser Yellowlegs Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Greater Yellowlegs
Pomarine Jaeger Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Willet
Parasitic Jaeger Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Lesser Yellowlegs
Black-legged Kittiwake Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Pomarine Jaeger
Sabine's Gull Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Parasitic Jaeger
Bonaparte's Gull Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Black-legged Kittiwake
Little Gull Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Sabine's Gull
Franklin's Gull Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Bonaparte's Gull
Ring-billed Gull California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Little Gull
California Gull Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Franklin's Gull
Herring Gull Thayer's Gull Iceland Gull Lesser Black-backed Gull	Ring-billed Gull
Thayer's Gull Iceland Gull Lesser Black-backed Gull	California Gull
Thayer's Gull Iceland Gull Lesser Black-backed Gull	
Iceland Gull Lesser Black-backed Gull	
Lesser Black-backed Gull	
	Lesser Black-backed Gull
	Glaucous Gull

Great Black-backed Gull Caspian Tern Black Tern Common Tern Arctic Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Hairy Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher Eastern Wood-Pewee	Const Black hard ad C. II
Black Tern Common Tern Arctic Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Hairy Woodpecker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	
Common Tern Arctic Tern Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	
Forster's Tern Rock Pigeon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	
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Rock Pigeon  Mourning Dove  Yellow-billed Cuckoo  Black-billed Cuckoo  Eastern Screech-Owl  Great Horned Owl  Snowy Owl  Barred Owl  Long-eared Owl  Northern Saw-whet Owl  Common Nighthawk  Eastern Whip-poor-will  Chimney Swift  Ruby-throated Hummingbird  Belted Kingfisher  Red-headed Woodpecker  Yellow-bellied Sapsucker  Downy Woodpecker  Hairy Woodpecker  Hairy Woodpecker  Pileated Woodpecker  American Kestrel  Merlin  Gyrfalcon  Peregrine Falcon  Olive-sided Flycatcher  Eastern Wood-Pewee  Yellow-bellied Flycatcher	
Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Forster's Tern
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Black-billed Cuckoo Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Mourning Dove
Eastern Screech-Owl Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Hairy Woodpecker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee	Yellow-billed Cuckoo
Great Horned Owl Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Black-billed Cuckoo
Snowy Owl Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Eastern Screech-Owl
Barred Owl Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Great Horned Owl
Long-eared Owl Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Snowy Owl
Short-eared Owl Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Barred Owl
Northern Saw-whet Owl Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Long-eared Owl
Common Nighthawk Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Short-eared Owl
Eastern Whip-poor-will Chimney Swift Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Northern Saw-whet Owl
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Ruby-throated Hummingbird Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Eastern Whip-poor-will
Belted Kingfisher Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Chimney Swift
Red-headed Woodpecker Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Ruby-throated Hummingbird
Red-bellied Woodpecker Yellow-bellied Sapsucker Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Belted Kingfisher
Yellow-bellied Sapsucker  Downy Woodpecker  Hairy Woodpecker  Northern Flicker  Pileated Woodpecker  American Kestrel  Merlin  Gyrfalcon  Peregrine Falcon  Olive-sided Flycatcher  Eastern Wood-Pewee  Yellow-bellied Flycatcher	Red-headed Woodpecker
Downy Woodpecker Hairy Woodpecker Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Red-bellied Woodpecker
Hairy Woodpecker  Northern Flicker  Pileated Woodpecker  American Kestrel  Merlin  Gyrfalcon  Peregrine Falcon  Olive-sided Flycatcher  Eastern Wood-Pewee  Yellow-bellied Flycatcher	Yellow-bellied Sapsucker
Hairy Woodpecker  Northern Flicker  Pileated Woodpecker  American Kestrel  Merlin  Gyrfalcon  Peregrine Falcon  Olive-sided Flycatcher  Eastern Wood-Pewee  Yellow-bellied Flycatcher	Downy Woodpecker
Northern Flicker Pileated Woodpecker American Kestrel Merlin Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	
American Kestrel  Merlin  Gyrfalcon  Peregrine Falcon  Olive-sided Flycatcher  Eastern Wood-Pewee  Yellow-bellied Flycatcher	
American Kestrel  Merlin  Gyrfalcon  Peregrine Falcon  Olive-sided Flycatcher  Eastern Wood-Pewee  Yellow-bellied Flycatcher	Pileated Woodpecker
Gyrfalcon Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	American Kestrel
Peregrine Falcon Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Merlin
Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	Gyrfalcon
Olive-sided Flycatcher Eastern Wood-Pewee Yellow-bellied Flycatcher	
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Yellow-bellied Flycatcher	· · · · · · · · · · · · · · · · · · ·
	Yellow-bellied Flycatcher
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Alder Flycatcher	•
Willow Flycatcher	-
Least Flycatcher	
Eastern Phoebe	•

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Great Crested Flycatcher
Eastern Kingbird
Northern Shrike
White-eyed Vireo
Yellow-throated Vireo
Blue-headed Vireo
Philadelphia Vireo
Warbling Vireo
Red-eyed Vireo
Blue Jay
American Crow
Horned Lark
Northern Rough-winged Swallow
Purple Martin
Tree Swallow
Bank Swallow
Barn Swallow
Cliff Swallow
Black-capped Chickadee
Tufted Titmouse
Red-breasted Nuthatch
White-breasted Nuthatch
Brown Creeper
Rock Wren
House Wren
Winter Wren
Sedge Wren
Marsh Wren
Carolina Wren
Blue-gray Gnatcatcher
Golden-crowned Kinglet
Ruby-crowned Kinglet
Eastern Bluebird
Mountain Bluebird
Veery
Gray-cheeked Thrush
Swainson's Thrush
Hermit Thrush
Wood Thrush
American Robin
Gray Catbird

Brown Thrasher
Northern Mockingbird
European Starling
American Pipit
Bohemian Waxwing
Cedar Waxwing
Lapland Longspur
Snow Bunting
Ovenbird
Worm-eating Warbler
Louisiana Waterthrush
Northern Waterthrush
Golden-winged Warbler
Blue-winged Warbler
Black-and-white Warbler
Prothonotary Warbler
Tennessee Warbler
Orange-crowned Warbler
Nashville Warbler
Connecticut Warbler
Mourning Warbler
Common Yellowthroat
Hooded Warbler
American Redstart
Cape May Warbler
Cerulean Warbler
Northern Parula
Magnolia Warbler
Bay-breasted Warbler
Blackburnian Warbler
Yellow Warbler
Chestnut-sided Warbler
Blackpoll Warbler
Black-throated Blue Warbler
Palm Warbler
Pine Warbler
Yellow-rumped Warbler
Yellow-throated Warbler
Prairie Warbler
Black-throated Green Warbler
Canada Warbler

Wilson's Warbler
Yellow-breasted Chat
Grasshopper Sparrow
Henslow's Sparrow
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow
Field Sparrow
Fox Sparrow
Dark-eyed Junco
White-crowned Sparrow
Harris's Sparrow
White-throated Sparrow
Vesper Sparrow
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
Eastern Towhee
Summer Tanager
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak
Indigo Bunting
Dickcissel
Bobolink
Red-winged Blackbird
Eastern Meadowlark
Yellow-headed Blackbird
Rusty Blackbird
Brewer's Blackbird
Common Grackle
Brown-headed Cowbird
Orchard Oriole
Baltimore Oriole
Pine Grosbeak
House Finch
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll

Hoary Redpoll
Pine Siskin
American Goldfinch
Evening Grosbeak
House Sparrow

## **NOTICES**

## **Paperwork Reduction Act Statement**

In accordance with the Paperwork Reduction Act (44 U.S.C. 3501 et seq.), the U.S. Fish and Wildlife Service collects information necessary to designate Urban Bird Treaty cities or municipalities, and to respond to requests made under the Freedom of Information Act and the Privacy Act of 1974. Information requested in this form is purely voluntary. However, submission of requested information is required in order to consider applications for designation as an Urban Bird Treaty city. Failure to provide all requested information may be sufficient cause for the U.S. Fish and Wildlife Service to deny the request. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. OMB has approved this collection of information and assigned Control No. 1018-####.

## **Estimated Burden Statement**

We estimate public reporting for this collection of information to average 3 hours to 80 hours per response, depending on activity, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Service Information Collection Clearance Officer, Division of Policy, Performance, and Management Programs, Fish and Wildlife Service, MS: PRB (JAO/3W), 5275 Leesburg Pike, Falls Church, VA 22041-3803, or via email at Info\_Coll@fws.gov.